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CORRECTED FATALITY RATES IN PUBLIC HEALTH PRACTICE

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The fatality rate is the percentage of the cases which result in death. In a hospital both of these factors are definitely known and the fatality rate may easily be calculated for hospital cases. This is also true in the case of the private practitioner. The calculation of the fatality rate in a city or a state, however, involves an indeterminate factor, the actual number of cases, as only the number of reported cases is known. The cases reported are often quite different from the actual cases due to the fact that only a part of the cases are reported. The consideration of the percentage of cases which are reported, i. e., the index of reporting; the calculation of an estimated number of cases and the fatality rates based upon their estimate, or the corrected fatality rates, are here presented.

Comparisons of the number of cases of any of the common reportable communicable diseases over a period of time in one city or for the same period of time in several cities have not been significant because of variations in the reporting of these diseases.

The fatality rate has been used at times as an index of reporting by assuming that the fatality rate of each disease does not vary much from year to year or from place to place for that disease. Whipple¹ pointed out that the reporting of cases is not uniform from year to year. He stated that when epidemics occur, a larger percentage of the existing cases are reported and therefore the fatality rate is considerably lower than in years when no epidemic occurs. As an illustration, Cleveland in 1903 experienced its last severe epidemic of typhoid fever during which time 3,446 cases and 472 deaths were reported, giving a fatality rate of 14 per cent while during the previous year the fatality rate amounted to 49 per cent with 272 cases and 133 deaths, and during the succeeding year 1,468 cases and 203 deaths gave a fatality rate of 14 per cent. These calculations indicate two things very concretely, first, that only a small percentage of the total actual cases were reported in 1902 and second, that Whipple's statement was quite correct for those years when reporting was more hit

¹ Whipple, George Chandler: *Vital Statistics*, second edition.

and miss than is generally true at the present time in most cities, including Cleveland. However, it is still true in the case of an epidemic of a disease less commonly reported, such as influenza, that the fatality rate as ordinarily calculated varies considerably.

INDEX OF REPORTING

An analysis of the deaths from each of the common reportable communicable diseases according to whether each fatal case was or was not reported as a case before death provides data from which an index of reporting may be calculated. The index is shown as the per cent of the deaths that were previously reported as cases.² The percentages for each of the common reportable communicable diseases are given below.

TABLE 1.—*Per cent of deaths previously reported as cases, Cleveland, Ohio, 1923-1928*

Disease	Per cent	Disease	Per cent
Typhoid and paratyphoid.....	85	Erysipelas.....	72
Smallpox.....	91	Acute poliomyelitis.....	84
Measles.....	67	Tetanus.....	1 57
Scarlet fever.....	94	Epidemic meningitis.....	86
Whooping cough.....	78	Pneumonia.....	1 28
Diphtheria.....	93	Diarrhea and enteritis.....	1 5
Influenza.....	22	Puerperal septicemia.....	1 4

¹ One year omitted.

² Two years omitted.

In the case of measles, scarlet fever, whooping cough, and diphtheria a slight increase has taken place since 1923 in the percentage of deaths reported as cases prior to death. The increase in the percentage of the deaths which were previously reported as cases demonstrates improvement in the reporting of cases by physicians and the more adequate checking of the secondary cases by the public health nurses on their visits in the home.

ESTIMATED TOTAL CASES

The estimated total number of cases is based upon this index of reporting and involves the assumption that the proportion of cases reported is the same for fatal and nonfatal cases. The estimated total cases must be considered as the estimated number of cases attended by physicians which would have been reported had all physicians been reporting conscientiously every case which they had diagnosed. In considering these cases account must be taken of the severity of the disease and of the practice of the family relative to the employment of the physician. With respect to diphtheria or scarlet fever, for instance, the cases vary from those of great severity to mild and presumably

² If a report of a case is received previous to the death certificate, the death is recorded as that of a reported case.

unrecognizable cases scarcely regarded by a careful family as an illness. Furthermore, the families vary from those who delay calling the physician until the case is far advanced to those who call the physician for advice on the slightest provocation.

With these variations the cases reported consist of two rather distinct groups, those seen relatively soon after onset and those seen sometime after, perhaps because the disease progressed much more rapidly than expected. The estimated total cases will not include the cases not seen by physicians which may be of slight severity and either recognized by the family with reasonable accuracy or in which the characteristic symptoms are too slight for such recognition. These latter cases probably account for adult immunity without history of the disease.

CORRECTED FATALITY RATES

The calculation of corrected fatality rates is based upon the total number of deaths and the estimated total number of cases. The detailed data and calculations of the fatality rates for the common reportable communicable diseases occurring during a period of six years in Cleveland, Ohio, are shown in Table A in the appendix. The corrected fatality rates are shown in the following table:

TABLE 2.—Corrected fatality rates in Cleveland, Ohio

Disease	1923	1924	1925	1926	1927	1928	1923-1928
Typhoid and paratyphoid.....							12
Smallpox.....							6
Measles.....	0.45	0.53	0.15	0.46	0.34	0.31	.42
Scarlet fever.....	1.5	1.3	1.2	1.3	1.1	1.6	1.4
Whooping cough.....	1.6	1.2	1.7	2.2	1.0	1.6	1.6
Diphtheria.....	6.8	6.5	7.2	7.7	6.2	6.4	6.8
Influenza.....	3.1	7.7	4.2	2.3	6.6	2.0	2.4
Erysipelas.....	8.1	7.4	8.4	9.1	9.2	8.9	8.5
Acute poliomyelitis.....							13
Tetanus.....							41
Epidemic meningitis.....							40
Pneumonia.....	18		16	15	17	15	17
Diarrhea and enteritis.....			10	9	12	12	12
Puerperal septicemia.....		84	69	33	20	25	36

The estimated total cases need not be calculated to obtain these corrected fatality rates. They may be calculated directly by determining the percentage of the cases reported that resulted fatally, leaving out of account the deaths not previously reported as cases. The resulting rates will be identical to those in the above tabulation.

The corrected fatality rates are smaller than the fatality rates as ordinarily calculated except in those instances in which all of the fatal cases are reported prior to death, in which instance they are identical. As the index of reporting approaches 100 the difference in the fatality rates calculated by the two methods approaches zero.

The index of reporting of influenza is 22 per cent for the 6-year period, i. e., 22 per cent of the deaths from influenza were previously reported as cases. For this reason the fatality rates as ordinarily calculated are much greater than the corrected fatality rates as illustrated by the first two lines in the tabulation shown below. The last line shows partially corrected fatality rates. These rates are based upon deaths and cases estimated in the following manner: To the cases reported are added the deaths not reported as cases prior to death. Those diseases which are reported at all completely or for which the number of cases reported is large and the deaths small show a very small difference between fatality rates as ordinarily calculated and as calculated on the cases estimated as just described. The use of this method of calculating fatality rates and estimating cases should be discouraged, since clearly the number of cases estimated in this way is too low.

TABLE 3.—*Influenza case fatality rates computed in three ways, Cleveland, Ohio*

	1923	1924	1925	1926	1927	1928	1923-1928
Ordinary.....	17.8	47.9	46.5	15.5	41.6	4.6	11.2
Corrected.....	3.1	7.7	4.2	2.3	6.6	2.0	2.4
Partially corrected.....	15.5	34.2	32.6	13.7	30.8	4.5	10.3

The actual fatality rates will vary from time to time because of variations in the virulence of the organism, in the resistance of the human organism and in the efficacy of the treatment. Nevertheless it may be assumed that actual fatality rates should not vary as much as the ordinary fatality rates based on reported cases. This has been found to be the case as indicated by comparisons of the coefficients of variation for each series.

The data in The Notifiable Diseases published by the United States Public Health Service for 1925, 1926, and 1927 have been analyzed for the cities having 500,000 population or more. This analysis shows a considerable variation in the fatality rates for these 13 cities. In the case of measles the average case fatality rates, for the three years, range from 0.2, 0.3, and 0.5 per cent in Milwaukee, San Francisco, and Washington to 1.4, 1.7, and 1.8 per cent in Boston, New York, and Detroit. And in the case of scarlet fever they vary from 0.7 per cent in Baltimore, New York, and Washington to 1.5, 1.6, and 1.7 per cent in Detroit, Buffalo, and Chicago. In the case of whooping cough the rates vary from 0.9, 2.2, and 2.3 per cent in Milwaukee, Buffalo, and San Francisco to 4.2, 4.2, and 5.6 per cent in St. Louis, Pittsburgh, and New York.

The city with a low case fatality rate for one disease often has a high rate for another disease. It has also been observed that the cities with the high rates for the 3-year average frequently have a low rate for one or more of the years making up the average.

It is probable that the variation from city to city in the fatality rate is not only due to the completeness or lack of completeness of reporting but that other factors are involved. If the completeness of the reporting of cases were the only factor it might be expected that a city with a high fatality rate for one disease (caused by poor reporting of cases) would have a relatively high fatality rate for each of the common reportable diseases, at least it would be expected to hold about the same position in the array from year to year for the same disease. Neither of these conditions is true and therefore before studies can be made of the underlying causes of the variation in fatality rates from year to year and place to place the uncertainty relative to reporting must be eliminated. If several of the larger cities, besides reporting cases registered and deaths, would classify deaths as reported or not reported as cases prior to death, thus allowing for the calculation of the corrected fatality rates and the estimated total cases, it is believed that some progress might be made toward the understanding of some of the underlying principles involved in the variation of fatality rates.

As an illustration of the present impossibility of comparing fatality rates the following fatality rates for measles are given for New York City and for Cleveland:

Year	New York Ordinary	Cleveland		Year	New York Ordinary	Cleveland	
		Ordinary	Corrected			Ordinary	Corrected
1920.....	2.2			1925.....	1.4	.22	.15
1921.....	2.1			1926.....	1.8	.78	.46
1922.....	2.4			1927.....	1.8	.34	.34
1923.....	1.8	0.45	0.45	1928.....	1.0	.44	.31
1924.....	1.5	.88	.53				

It is evident that the Cleveland rates are smaller than the New York rates for each year and that a comparison with the Cleveland corrected rates shows considerable differences. Is it fair to assume that a smaller portion of the cases are reported in New York or that the organism is more virulent, the human resistance lower, or the treatment of the cases less effective?

As a further illustration of the present dilemma the following data on diphtheria for Detroit ³ is introduced:

Year	Number of deaths	Death rate per 100,000 population	Deaths per 100 cases	Number of cases	Children immunized
1920	371	36.3	8.3	4,478	0
1921	334	35.5	7.1	4,689	
1922	204	21.4	7.3	2,779	
1923	205	19.5	8.5	2,424	
1924	162	14.3	7.6	2,138	
1925	118	9.5	7.3	1,615	136,601
1926	450	34.8	14.1	3,181	105,904
1927	278	20.8	11.3	2,468	88,789
1928	224	16.3	11.4	1,958	12,167
1929 ¹	² 357	² 25.1	² 13.5	² 2,638	² 8,570

¹ Includes 1921-1925, inclusive.

² Estimated—based on 1,539 cases and 208 deaths during first 7 months with a population of 1,429,000.

The fatality rate of about 8 during six years, 1920 to 1925 increased to about 11 to 14 with the immunization of some 100,000 children. The corrected fatality rates for 1925 and 1926 should shed light upon the question of whether the percentage of cases reported had decreased or the disease had actually become more severe.

SUMMARY

1. A method of calculating (a) an index of completeness of reporting, (b) estimated total cases, and (c) fatality rates based on these estimates has been presented.

2. The fatality rates here presented are based upon the number of deaths among reported cases and the total number of cases reported. These fatality rates present more nearly the actual fatality rates than the fatality rates as ordinarily calculated.

3. When either all cases are reported or this, or some other more satisfactory method of estimating the total cases, is adopted, then and only then can epidemiological studies based on reported cases be made with a view of understanding the effect of the other factors which cause these large variations in the case fatality from place to place and year to year.

4. It seems desirable that some large cities adopt this procedure and report cases and deaths for several notifiable diseases in such a manner as to make possible the calculation of the corrected fatality rates. The data should be tabulated as cases and deaths separated as to whether or not the case was reported prior to death. As an illustration the following example is inserted:

Reported cases	Deaths		
	Reported as cases	Not reported as cases	Total
1,000	10	5	15

³ From Weekly Health Review, Detroit Department of Health of Sept. 14, 1929.

From these data it may be assumed that 10 deaths occurred in the 1,000 cases reported and that since 5 other deaths occurred then probably 500 additional cases existed in the community. If this is the fact, instead of 1.5 per cent of the cases being fatal the rate should be 1.

APPENDIX

TABLE A.—Deaths and cases of certain reportable diseases and the case-fatality rates, Cleveland, Ohio, 1923-1928

TYPHOID AND PARATYPHOID FEVER

Year	Deaths		Per cent of deaths reported as cases	Reported cases	Estimated total cases	Fatality rate (per cent)	
	Total	Reported as cases				Based upon reported cases (ordinary)	Based upon estimated total cases (corrected)
1	2	3	4	5	6	7	8
1923-1928.....	75	64	85	540	633	14	12

SMALLPOX

1923-1928.....	11	10	91	181	199	6	6
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MEASLES

1923.....	29	129	100	6,411	6,411	0.45	0.45
1924.....	20	12	60	2,283	3,805	.88	.53
1925.....	6	4	67	2,664	3,996	.22	.15
1926.....	107	63	59	13,677	23,200	.78	.46
1927.....	1	1	100	295	295	.34	.34
1928.....	14	10	71	3,207	4,490	.44	.31
1923-1928.....	177	119	67	28,537	42,446	.62	.42

SCARLET FEVER

1923.....	58	155	95	3,653	3,860	1.6	1.5
1924.....	12	111	91	1,817	899	1.5	1.3
1925.....	15	12	80	1,001	1,251	1.5	1.2
1926.....	33	31	94	2,301	2,449	1.4	1.3
1927.....	17	17	100	1,517	1,517	1.1	1.1
1928.....	16	16	100	995	995	1.6	1.6
1923-1928.....	151	142	94	10,284	10,936	1.5	1.4

WHOOPIING COUGH

1923.....	34	126	75	1,620	2,172	2.1	1.6
1924.....	36	27	75	2,344	3,125	1.5	1.2
1925.....	56	40	71	2,359	3,303	2.4	1.7
1926.....	105	80	76	3,582	4,701	2.9	2.2
1927.....	17	15	88	1,437	1,629	1.2	1.0
1928.....	51	45	88	2,820	3,196	1.8	1.6
1923-1928.....	299	233	78	14,171	18,185	2.1	1.6

¹ Estimated on cases checked with deaths.

TABLE A.—Deaths and cases of certain reportable diseases and the case-fatality rates, Cleveland, Ohio, 1923-1928—Continued

DIPHTHERIA

Year	Deaths		Per cent of deaths reported as cases	Reported cases	Estimated total cases	Fatality rate (per cent)	
	Total	Reported as cases				Based upon reported cases (ordinary)	Based upon estimated total cases (corrected)
1	2	3	4	5	6	7	8
1923	114	¹ 110	96	1,621	1,683	7.0	6.8
1924	79	71	90	1,094	1,217	7.2	6.5
1925	138	125	91	1,733	1,913	8.0	7.2
1926	192	174	91	2,263	2,497	8.5	7.7
1927	188	173	95	2,862	3,023	6.6	6.2
1928	104	102	98	1,588	1,619	6.5	6.4
1923-1928	815	760	93	11,161	11,969	7.3	6.8

INFLUENZA

1923	130	¹ 22	17	729	4,221	17.8	3.1
1924	81	13	16	169	1,053	47.9	7.7
1925	111	10	9	239	2,652	46.5	4.2
1926	232	34	15	1,499	10,228	15.5	2.3
1927	57	9	16	137	868	41.6	6.6
1928	209	90	43	4,551	10,568	4.6	2.0
1923-1928	820	178	22	7,324	33,746	11.2	2.4

ERYSIPELAS

1923	22	¹ 19	87	237	273	9.3	8.1
1924	19	17	89	231	258	8.2	7.4
1925	30	24	80	285	356	10.5	8.4
1926	41	25	61	274	449	15.0	8.1
1927	30	21	70	228	326	13.1	9.2
1928	41	26	63	292	460	14.0	8.9
1923-1928	183	132	72	1,547	2,145	11.8	8.5

ACUTE POLIOMYELITIS

1923-1928	44	37	84	286	340	15.4	12.9
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TETANUS

1924-1928	21	12	57	29	51	72	41
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EPIDEMIC MENINGITIS

1923-1928	92	79	86	198	231	46	40
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PNEUMONIA

1923	1,181	¹ 401	34	2,191	6,459	54	19
1925	1,064	287	27	1,651	8,696	64	16
1926	1,194	306	26	2,099	7,956	59	15
1927	827	218	26	1,253	4,753	66	17
1928	1,014	240	25	1,665	6,780	61	15
1923, 1925-1928	5,280	1,461	28	8,799	31,799	60	17

¹ Estimated on cases checked with deaths.

TABLE A.—Deaths and cases of certain reportable diseases and the case-fatality rates, Cleveland, Ohio, 1923-1928—Continued

DIARRHEA AND ENTERITIS UNDER 2 YEARS

Year	Deaths		Per cent of deaths reported as cases	Reported cases	Estimated total cases	Fatality rate (per cent)	
	Total	Reported as cases				Based upon reported cases (ordinary)	Based upon estimated total cases (corrected)
1	2	3	4	5	6	7	8
1925.....	238	8	3	69	2,503	345	10
1926.....	176	3	2	33	1,935	533	9
1927.....	115	10	9	83	955	138	12
1928.....	108	10	9	84	907	128	12
1925-1928.....	637	31	5	269	5,523	237	12

PUERPERAL SEPTICEMIA

1924.....	52	5	10	6	62	867	84
1925.....	50	0	0	3	780	1,667	63
1926.....	32	1	2	3	156	1,733	33
1927.....	38	1	3	5	190	700	20
1928.....	47	2	4	8	188	762	25
1924-1928.....	219	9	4	25	664	956	36

¹ Based on ratio for groups.SUMMARY OF CURRENT PREVALENCE OF COMMUNICABLE DISEASES IN THE UNITED STATES¹

December 1-28, 1929

The prevalence of certain important communicable diseases as indicated by weekly telegraphic reports from State health departments² to the Public Health Service is summarized below. This summary is prepared from the data published weekly in the Public Health Reports under the section entitled "Prevalence of Disease."

Smallpox.—The smallpox incidence during the period December 1-28, 1929, was considerably in excess of the expectancy for the period. The reported number of cases was 3,907, as compared with 2,149 and 2,784 for the corresponding period of 1928 and 1927, respectively.

Considerable numbers of cases were reported from the States adjoining the Great Lakes: Indiana (643), Ohio (565), Illinois (465), and Michigan (269). The incidence was also fairly heavy in Iowa (382), Oklahoma (255), and Washington (311).

Smallpox normally comes to a peak toward the end of March.

¹ From the Office of Statistical Investigations, U. S. Public Health Service.² The numbers of States reporting for the various diseases are as follows: Typhoid fever, 41; poliomyelitis, 43; meningococcus meningitis, 42; smallpox, 42; measles, 38; diphtheria, 42; scarlet fever, 41; influenza, 31.

Meningococcus meningitis.—The incidence of meningococcus meningitis continued higher than during the preceding three years. During the month of December 666 cases were reported, as compared with 562 and 221 for the corresponding period of 1928 and 1927, respectively. As the disease normally comes to a peak about March, it is not unlikely that the cases will increase further during the coming months.

Poliomyelitis.—The customary seasonal decline in poliomyelitis was experienced during the period under consideration. The incidence was slightly below the median of recent years.

Typhoid fever.—The incidence of typhoid fever was at about the same low level as last year.

Measles.—The measles incidence was the lowest for the last four years. The reported cases numbered 12,046, a decline of about one-third from the average of recent years.

Influenza.—The incidence of influenza was about equal to the non-epidemic average of recent years; 3,241 cases were reported, as compared with over 321,000 cases during the corresponding period of last year, when the epidemic was approaching its peak.

Diphtheria.—The incidence of diphtheria was also the lowest for the last four years. The reported number of cases was 7,257, as compared with 7,538 last year. The disease has already begun its customary seasonal decline.

Mortality from all causes.—Mortality from all causes in large cities during the current four weeks under report averaged 13.4 per thousand population, according to the Weekly Health Index of the United States Census Bureau. Last year during the corresponding period the rate was 15.6, and the influenza epidemic was at that time spreading rapidly.

RECENT STATE MORTALITY STATISTICS *

For the information of public health officials and others interested, the rates in the following tables have been computed from monthly mortality data furnished by the State health departments for the latest month for which records are available. For purposes of comparison, the mortality records for a few preceding years are given, the rates being those for the month corresponding to the latest month for which the 1929 rate is available.

* From the Office of Statistical Investigations, United States Public Health Service.

Monthly State mortality statistics

[All rates are on an annual basis, and, with the exception of mortality from all causes, infant mortality, and congenital malformations and diseases of early infancy, are per 100,000 population]

	1929										Corresponding month for—			
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		1928	1927	1926	1925
ALL CAUSES: ANNUAL RATE PER 1,000 POPULATION														
Alabama.....	12.6	11.4	11.2	11.9	11.8	11.1	11.0	10.8	11.0		10.8	10.0	10.6	9.8
White.....	11.2	10.0	9.0	9.2	9.2	8.7	8.5	8.4	8.8		8.7	8.3	8.7	-----
Colored.....	17.2	15.7	15.3	16.9	16.8	15.7	15.7	15.3	15.1		14.8	13.1	14.1	-----
California.....	15.7	15.4	15.2	13.8	14.2	13.1	12.8	12.4			12.5			-----
Connecticut.....	14.8	12.2	10.4	11.1	9.0	9.3	8.9	9.5	10.2		10.1	9.4	10.2	11.0
Georgia.....	11.2	9.2	9.6	9.1	11.3	10.3	10.0		10.5					-----
Hawaii Territory.....	15.2	14.6	14.6	14.5	12.7	12.1	9.7	10.8	10.3		12.1	11.6		-----
Indiana.....	14.0	13.4	12.4	12.2	11.0	10.5	10.5	10.9	14.3		12.2	11.3	11.4	11.7
Iowa.....	12.2	11.0	10.7	10.4		9.7	8.6	9.7	9.5		9.7			-----
Kansas.....	12.7	12.1	11.0	9.8	9.6	9.2	9.7	8.7			10.0			-----
Louisiana.....	13.4	12.1	11.5	11.2	11.6	11.1	10.8	11.1			11.5			-----
White.....	10.9	9.7	8.8	8.2	8.2	8.3	8.4	9.0			8.9			-----
Colored.....	18.0	16.3	16.5	16.7	16.9	16.0	15.1	15.1			16.4			-----
Maryland.....						11.7	11.9	11.1	12.2					-----
White.....						10.4	10.8	9.9	11.0					-----
Colored.....						18.4	17.5	16.8	18.2					-----
Michigan.....	12.9	13.2	12.7	13.2	11.7	10.8	10.4	11.2	10.9		10.9			-----
Minnesota.....	9.1	9.7	9.3	9.2	8.6	8.3	8.0	7.9	8.1		8.6			-----
Mississippi.....	14.0	13.0	11.8	11.1	12.6	11.7	10.7	10.0			10.7			-----
White.....	11.9	10.5	8.8	8.4	9.0	8.6	8.4	8.0			8.7			-----
Colored.....	15.9	15.3	14.6	13.7	15.9	14.5	12.7	11.7			12.5			-----
Montana.....								9.0						-----
Nebraska.....	11.9	11.0	9.7	9.6	8.4	8.2	7.7				8.2			-----
New Jersey.....	14.0	13.2	12.1	11.3	10.5	10.4	9.0	10.3	10.8		10.6	10.5	10.2	11.3
New York ¹	15.6	14.1	13.5	13.0	16.0	11.1	11.3	11.4	12.2		12.1	11.7	12.5	13.8
North Carolina.....	15.7	12.6	11.7	11.9										-----
Pennsylvania.....	14.9	12.9	11.7	11.2	9.8	9.6	9.2	10.0	10.6		10.9	10.6	11.3	11.9
South Dakota.....	9.6	8.9	8.0	9.0	7.1	6.8	6.3	7.3			7.1			-----
Tennessee.....	14.4	13.8	11.3	10.7	10.9	11.9	10.9	10.8	11.0		10.9	10.3		-----
White.....	12.7	11.9	9.6	9.1	9.3	10.1	9.4	9.2	9.4					-----
Colored.....	22.6	22.8	19.8	18.2	18.9	20.9	18.2	18.4	18.4					-----
Virginia.....	13.5	12.0	10.3	9.8	9.7	10.2	8.9	9.0	9.6		6.9			-----
White.....	11.3	10.0	8.8	7.8	8.0	8.8	7.4	7.4	8.3		6.1			-----
Colored.....	19.1	17.1	14.4	15.1	14.4	14.0	13.0	13.2	12.9		11.6			-----
Wisconsin.....	11.8	11.2	11.1	10.6	10.0		8.9	9.2	9.4					-----

INFANT MORTALITY, PER 1,000 LIVE BIRTHS

Alabama.....	92	86	69	78	73	70	60	61	67	69	59	69	-----
White.....	79	79	62	66	69	67	52	54	59	62	45	57	-----
Colored.....	117	97	80	99	81	75	75	75	83	82	88	92	-----
California.....	73	74	69	65	63	62	56	56		55			-----
Connecticut.....	85	69	61	70	50	44	53	74	72	59	49	66	76
Georgia.....									73				-----
Hawaii Territory.....	120	129	117	109	108	89	158	81	83	87			-----
Indiana.....	83	70	60	63	48	52	64	74	62	60	67	73	75
Iowa.....	75	37	61	48		44	43	40	45	42			-----
Kansas.....	73	77	69	53	49	47	49	47		58			-----
Louisiana.....	75	78	86	91	95	69	64	62		69			-----
Maryland.....						70	82	78	80				-----
White.....						60	75	68	66				-----
Colored.....						105	113	111	134				-----
Michigan.....	71	71	67	69	57	53	51	68	65	66			-----
Minnesota.....	66	48	51	49	36	39	40	42	40	50			-----
Montana.....								55					-----
Nebraska.....	81	71	50	48	48	36	37			45			-----
New Jersey.....	70	71	70	59	43	46	56	57	52				-----
New York ¹	81	77	70	64	52	45	47	58	64	62	58	69	71
Pennsylvania.....	95	81	69	65	51	49	56	74	68	66	71	85	87
South Dakota.....	99	66	63	63	41	50	39	43		50			-----
Tennessee.....	96	89	61	86	63	83	71	63	70				-----
Virginia.....	91	78	61		67	75	61	65	62				-----
Wisconsin.....	68	69	89	60	51	50	43	56	54	55			-----

¹ Exclusive of New York City.

Monthly State mortality statistics—Continued

	1929										Corresponding month for—			
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		1928	1927	1926	1925
CONGENITAL MALFORMATIONS AND DISEASES OF EARLY INFANCY (150-163), PER 1,000 LIVE BIRTHS														
Alabama.....	27	31	27	34	29	27	30	31	21		29	25	28	-----
White.....	28	32	29	34	34	30	30	29	33		29	22	27	-----
Colored.....	26	28	24	34	20	21	31	35	29		28	31	31	-----
California.....	33	31	33	32	30	27	26	30	29		29	-----	-----	-----
Iowa.....	34	36	35	31	-----	30	30	27	28		26	-----	-----	-----
Kansas.....	32	26	39	33	36	31	30	30	30		33	-----	-----	-----
Louisiana.....	21	29	31	32	34	28	30	28	-----		30	-----	-----	-----
Maryland.....	-----	-----	-----	-----	-----	36	34	35	38		-----	-----	-----	-----
White.....	-----	-----	-----	-----	-----	36	37	31	36		-----	-----	-----	-----
Colored.....	-----	-----	-----	-----	-----	36	27	49	46		-----	-----	-----	-----
Michigan.....	37	34	35	38	33	36	33	33	36		24	-----	-----	-----
Minnesota.....	35	30	33	32	26	28	29	30	29		33	-----	-----	-----
Nebraska.....	33	30	31	29	33	22	26	-----	-----		27	-----	-----	-----
New York ¹	43	41	38	41	35	45	35	33	38		38	34	39	38
Pennsylvania.....	38	33	34	35	32	30	29	32	33		33	34	-----	-----
South Dakota.....	43	29	32	29	21	35	16	26	-----		34	-----	-----	-----
Tennessee.....	28	27	20	26	28	29	25	25	26		-----	-----	-----	-----

TYPHOID FEVER (1)

Alabama.....	1.4	2.2	5.7	5.5	11.4	12.4	17.4	11.3	6.9	13.8	15.5	25.5	16.2	-----
California.....	2.6	2.1	1.6	1.6	1.9	3.1	2.6	3.5	-----	4.8	-----	-----	-----	-----
Connecticut.....	-----	-----	-----	1.4	1.5	1.4	1.4	0.7	1.4	-----	3.7	.8	3.1	-----
Georgia.....	2.6	2.6	5.3	7.4	12.2	20.2	19.9	-----	14.3	-----	-----	-----	-----	-----
Hawaii Territory.....	3.7	13.5	8.5	3.4	3.5	6.6	-----	6.8	3.3	3.4	7.2	-----	-----	-----
Illinois.....	.9	.5	.9	.5	1.6	2.2	1.9	2.5	2.2	3.8	3.7	7.0	6.8	-----
Indiana.....	.4	.4	3.4	1.5	2.3	7.0	5.6	5.0	7.3	9.3	12.0	16.6	-----	-----
Iowa.....	1.1	.5	2.6	1.0	-----	9.7	3.4	2.5	2.4	1.0	-----	-----	-----	-----
Kansas.....	1.4	1.9	1.3	1.3	5.3	3.2	7.1	2.0	-----	6.6	-----	-----	-----	-----
Kentucky.....	5.1	3.7	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Louisiana.....	4.0	3.6	11.2	14.5	10.0	17.5	16.9	18.1	-----	25.0	-----	-----	-----	-----
Maryland.....	-----	-----	-----	-----	-----	5.1	8.0	7.5	5.8	-----	-----	-----	-----	-----
Michigan.....	.9	.3	1.9	2.1	1.9	1.5	2.8	3.5	2.8	2.8	-----	-----	-----	-----
Minnesota.....	.4	-----	.5	.4	1.3	2.6	1.3	1.8	.4	4	-----	-----	-----	-----
Mississippi.....	2.9	6.6	4.1	7.2	18.6	19.7	19.1	15.6	-----	18.6	-----	-----	-----	-----
Montana.....	-----	-----	-----	-----	-----	-----	-----	17.7	-----	-----	-----	-----	-----	-----
Nebraska.....	.9	.8	0	2.5	.9	1.7	2.5	-----	-----	1.7	-----	-----	-----	-----
New Jersey.....	1.0	.3	.3	1.9	.3	1.9	1.8	2.2	2.8	2.5	-----	-----	-----	-----
New York ¹.....	.9	.4	.6	.6	2.1	2.3	2.1	3.2	2.5	2.5	4.9	2.8	6.8	-----
North Carolina.....	1.8	2.4	2.1	3.2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Pennsylvania.....	2.0	.8	.4	1.8	2.3	2.5	2.5	3.3	2.3	8.9	4.2	7.1	11.2	-----
South Carolina.....	9.1	3.2	3.9	10.1	22.8	25.3	27.6	20.2	-----	28.1	46.2	-----	-----	-----
South Dakota.....	3.7	-----	-----	-----	3.5	1.7	3.3	12.1	-----	8.6	-----	-----	-----	-----
Tennessee.....	2.1	2.8	2.9	5.2	7.3	19.3	31.1	25.3	16.5	18.4	-----	-----	-----	-----
Virginia.....	.5	.9	.9	8.9	3.8	7.8	5.9	4.3	7.3	-----	-----	-----	-----	-----
Wisconsin.....	1.3	2.0	1.2	.4	.8	.8	2.4	2.1	2.0	.8	-----	-----	-----	-----

MEASLES (7)

Alabama.....	3.4	3.9	5.7	3.2	2.8	1.4	0.5	0.5	0.5	1.8	2.8	1.4	-----	-----
California.....	.6	1.3	-----	.5	-----	.8	.5	-----	-----	-----	-----	-----	-----	-----
Connecticut.....	4.8	7.2	7.4	6.5	3.7	.7	-----	.7	-----	-----	-----	-----	-----	0.8
Georgia.....	2.9	1.5	3.0	2.2	-----	-----	.4	-----	-----	-----	-----	-----	-----	-----
Hawaii Territory.....	3.7	3.4	-----	16.9	17.4	13.2	2.3	-----	-----	3.4	14.5	-----	-----	-----
Illinois.....	3.9	6.9	10.1	9.7	6.9	2.1	.8	.2	.2	.5	.3	.3	1.1	-----
Indiana.....	4.9	10.4	13.4	7.0	5.0	.4	.4	-----	1.0	-----	.4	1.1	-----	-----
Iowa.....	.5	1.9	2.5	1.9	-----	.5	-----	1.0	1.5	-----	-----	-----	-----	-----
Kansas.....	.7	3.8	5.3	7.1	7.3	1.3	1.3	1.3	-----	-----	-----	-----	-----	-----
Kentucky.....	4.1	3.7	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Louisiana.....	5.3	6.0	4.4	4.2	0	2.4	0	4.4	-----	0	-----	-----	-----	-----
Maryland.....	-----	-----	-----	-----	-----	-----	.7	1.5	-----	-----	-----	-----	-----	-----
Michigan.....	1.1	5.1	7.7	9.2	5.0	2.3	.3	-----	.8	1.0	-----	-----	-----	-----
Minnesota.....	2.6	5.2	5.8	4.3	4.9	1.3	-----	.9	.4	1.4	-----	-----	-----	-----
Mississippi.....	12.4	18.4	7.5	8.3	2.0	2.0	.7	0	-----	-----	-----	-----	-----	-----
Nebraska.....	1.9	4.2	0	4.2	7.8	1.7	1.7	-----	0	-----	-----	-----	-----	-----
New Jersey.....	2.4	1.8	2.2	.6	1.0	3.3	.3	-----	0	.6	.6	-----	-----	-----
New York ¹	4.4	.4	.8	.8	-----	1.4	.6	.6	-----	-----	.4	-----	-----	-----
North Carolina.....	2.7	.4	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Pennsylvania.....	7.0	6.5	6.0	8.9	3.8	1.8	1.0	.7	.7	.9	.7	.5	.5	-----
South Carolina.....	-----	-----	-----	.6	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
South Dakota.....	-----	10.0	6.9	1.7	1.7	3.3	-----	-----	-----	-----	-----	-----	-----	-----
Tennessee.....	-----	.9	1.0	.5	.5	1.5	-----	.5	-----	-----	-----	-----	-----	-----
Virginia.....	1.0	3.2	2.4	3.7	.9	.5	.9	-----	1.4	-----	-----	-----	-----	-----
Wisconsin.....	2.2	2.4	7.0	6.0	4.5	2.0	-----	.8	.8	-----	-----	-----	-----	-----

¹ Exclusive of New York City.

Monthly State mortality statistics—Continued

	1929										Corresponding month for—			
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		1928	1927	1926	1925
SCARLET FEVER (8)														
Alabama.....	1.4	1.7	—	—	0.9	1.4	0.9	0.5	0.5	1.4	—	—	—	—
California.....	2.6	2.6	3.7	4.4	2.9	.8	.5	.8	.7	.5	—	—	—	—
Connecticut.....	—	2.9	.7	.7	.7	1.4	1.4	—	—	—	1.5	1.5	—	0.8
Georgia.....	2.0	—	1.1	—	—	—	1.5	—	—	—	—	—	—	—
Illinois.....	5.6	5.6	6.2	5.3	3.7	3.8	—	.8	3.0	2.1	1.3	1.8	—	1.6
Indiana.....	5.7	4.4	3.8	4.4	3.4	1.5	1.9	.8	1.5	2.2	3.0	1.5	—	—
Iowa.....	4.3	2.9	3.5	1.9	—	1.5	1.5	1.0	1.9	1.5	—	—	—	—
Kansas.....	5.0	6.4	6.0	2.6	2.7	—	—	—	—	1.3	—	—	—	—
Kentucky.....	6.1	5.1	—	—	—	—	—	—	—	—	—	—	—	—
Louisiana.....	0	1.2	.6	1.8	0	0	.6	0	—	0	—	—	—	—
Maryland.....	—	—	—	—	—	1.5	—	.8	1.5	1.0	—	—	—	—
Michigan.....	5.4	5.4	7.7	3.3	2.7	1.5	.5	—	1.3	2.6	—	—	—	—
Minnesota.....	2.2	3.9	2.7	2.2	—	1.3	1.7	1.3	1.3	—	—	—	—	—
Montana.....	—	—	—	—	—	—	—	4.4	—	—	—	—	—	—
Nebraska.....	8.3	5.9	9.5	6.7	1.7	1.7	0	—	—	1.8	—	—	—	—
New Jersey.....	1.4	1.2	2.2	1.5	1.6	.3	—	1.0	.6	.9	—	—	—	—
New York ¹	3.7	3.1	2.6	2.3	1.1	.8	1.4	1.1	1.0	.4	1.1	1.7	—	1.9
North Carolina.....	1.8	1.2	2.9	2.4	—	—	—	—	—	—	—	—	—	—
Pennsylvania.....	3.3	3.0	3.3	3.1	2.1	1.4	1.0	1.2	1.1	2.8	.7	1.4	—	1.7
South Carolina.....	—	—	—	1.3	.7	1.3	—	.7	—	—	.7	—	—	—
South Dakota.....	5.6	6.0	—	6.7	5.2	—	1.7	—	2.8	—	—	—	—	—
Tennessee.....	4.7	3.3	2.9	2.8	—	.9	.5	1.5	2.8	—	—	—	—	—
Virginia.....	1.0	1.8	—	.5	.5	—	.5	.5	3.7	—	—	—	—	—
Wisconsin.....	4.4	3.6	5.4	.4	2.9	2.0	1.2	.8	2.4	1.6	—	—	—	—

WHOOPIING COUGH (9)

Alabama.....	10.1	7.0	10.4	10.1	10.4	17.4	11.9	6.6	4.6	4.1	6.1	8.0	3.6	—
California.....	4.3	7.2	8.3	9.0	10.2	7.8	6.7	3.5	—	8.8	—	—	—	—
Connecticut.....	4.0	2.9	.7	2.2	3.0	2.2	2.2	1.5	0.7	5.8	.7	.8	7.7	—
Georgia.....	3.7	5.5	4.9	4.4	13.7	15.8	13.6	—	9.6	—	—	—	—	—
Hawaii Territory.....	37.4	40.5	83.7	67.5	38.3	16.4	6.6	13.6	9.9	6.7	—	—	—	—
Illinois.....	2.3	2.6	3.5	4.3	3.4	3.2	5.9	5.1	2.4	1.4	2.5	2.2	3.5	—
Indiana.....	6.2	6.3	6.5	7.0	6.5	4.8	6.7	4.2	4.4	1.1	3.4	8.3	—	—
Iowa.....	3.2	6.3	8.0	4.8	—	4.8	4.8	5.0	—	1.9	—	—	—	—
Kansas.....	7.8	5.8	4.6	2.6	2.7	4.5	3.8	2.0	—	4.0	—	—	—	—
Kentucky.....	13.8	8.8	—	—	—	—	—	—	—	—	—	—	—	—
Louisiana.....	6.7	6.0	7.5	6.0	6.9	11.5	4.8	4.4	—	7.5	—	—	—	—
Maryland.....	—	—	—	—	—	7.3	11.7	5.3	6.6	—	—	—	—	—
Michigan.....	7.7	4.6	7.2	8.2	5.6	3.3	7.4	6.6	4.6	3.3	—	—	—	—
Minnesota.....	6.1	4.3	4.9	5.2	.9	4.8	3.0	4.0	2.6	2.6	—	—	—	—
Mississippi.....	10.2	11.2	14.3	10.5	17.7	12.5	11.8	8.2	—	2.7	—	—	—	—
Montana.....	—	—	—	—	—	—	—	4.4	—	—	—	—	—	—
Nebraska.....	1.9	5.0	1.7	6.7	3.5	5.0	3.3	—	—	3.3	—	—	—	—
New Jersey.....	6.8	6.2	5.7	4.0	2.2	2.8	4.9	4.1	4.0	2.3	2.4	3.3	3.9	—
New York ¹	5.0	5.4	4.3	3.3	2.1	1.3	4.1	2.6	3.7	—	—	—	—	—
North Carolina.....	8.4	5.2	7.5	9.6	—	—	—	—	—	—	—	—	—	—
Pennsylvania.....	8.4	5.2	4.8	4.3	4.3	5.0	6.0	6.0	3.9	4.9	2.1	6.6	5.1	—
South Carolina.....	9.1	7.6	13.1	17.1	22.8	18.3	15.8	9.1	—	3.3	16.5	—	—	—
South Dakota.....	3.7	3.3	1.7	11.7	6.9	1.7	1.7	1.7	—	6.9	—	—	—	—
Tennessee.....	6.8	4.2	6.3	7.5	6.3	13.7	10.0	7.8	5.6	3.3	—	—	—	—
Virginia.....	9.1	6.9	6.1	8.2	9.9	12.8	16.9	9.4	7.3	—	—	—	—	—
Wisconsin.....	3.5	3.2	6.6	5.6	4.9	4.4	4.0	2.1	1.6	2.8	—	—	—	—

¹ Exclusive of New York City.

Monthly State mortality statistics—Continued

	1929										Corresponding month for—			
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		1928	1927	1926	1925
DIPHTHERIA (10)														
Alabama	3.9	4.3	2.8	2.3	1.4	2.8	7.3	16.6	23.3		17.4	23.9	15.1	12.6
California	3.7	1.8	3.7	3.4	4.3	1.8	3.1	2.9			3.5			
Connecticut	4.0	2.9	3.7	4.3	3.7	2.9	1.4	4.4	7.2		5.1	4.5	4.5	8.5
Georgia	2.4	1.8	1.9	22.4	20.9	11.4	5.2		11.8					
Hawaii Territory	11.2	13.5	20.9	6.7	10.5	6.6	3.3	13.6	6.6		27.0	29.0		
Illinois	8.8	10.4	11.6	12.6	11.1	9.1	7.0	4.6	11.5		8.9	8.1	8.4	7.3
Indiana	5.7	3.7	5.0	3.3	1.5	2.2	3.0	4.2	9.7		7.8	12.3	10.6	
Iowa		.5	2.0	1.5		2.4	1.0	1.5	1.5		4.4			
Kansas	2.8	4.5	4.6	1.3		.6	.6	4.0			2.0			
Kentucky	10.2	5.1			1.3									
Louisiana	8.7	3.0	2.5											
Maryland				5.4	3.1	3.6	6.0	5.0			4.4			
Michigan						1.5	5.1	1.5	3.6					
Minnesota	8.5	12.6	10.3	11.3	13.0	9.8	6.9	8.5	13.3		8.7			
Mississippi	2.2	3.0	2.2	2.6	.9	2.6	1.7	1.8	1.3		1.7			
Mississippi	5.8	2.0	2.0		1.4	1.3	5.3	6.8			9.5			
Montana								8.9						
Nebraska	5.6	2.5	4.3		5.2	.8	0				3.3			
New Jersey	13.0	10.2	10.5	10.5	9.9	8.9	5.5	6.7	10.8		7.1			
New York ¹	3.4	3.7	2.4	3.1	4.1	2.1	2.7	1.7	4.1		2.3	3.6	4.4	5.6
North Carolina	10.2	4.8	4.1	1.6										
Pennsylvania	7.1	9.2	6.8	5.7	5.7	4.4	2.9	6.0	7.4		6.0	9.5	8.9	10.5
South Carolina	4.9	6.9	2.0	4.4	3.3	1.9	10.1	10.4			11.1	11.9		
South Dakota	1.9		3.5	3.3				1.7						
Tennessee	4.7	4.7	2.9	3.3	2.9	1.4	6.1	8.8	20.7		17.4			
Virginia	4.6	7.8	1.9	1.4	1.4	2.7	3.2	10.4	16.9		10.1			
Wisconsin	3.1	2.0	.8	4.4	2.5	1.6	2.0	2.1	3.6		2.8			

INFLUENZA (11)

Alabama	236.7	117.9	53.2	43.6	19.5	9.6	9.2	9.9	10.1		25.2	14.5	12.8	8.1
White	241.3	110.0	47.1	32.2	18.1	8.4	6.3	10.1	9.8		21.0	16.0	9.6	
Colored	261.0	150.4	64.0	77.8	21.8	11.9	14.5	9.5	10.5		33.0	11.8	18.4	
California	47.2	40.1	23.5	13.4	7.5	5.2	4.1	5.9			7.7			
Connecticut	133.5	40.9	21.5	9.3	3.7	2.9	2.2	5.2	12.2		12.4	4.5	12.8	10.0
Georgia	164.0	77.2	74.5	22.4	20.9	11.4	5.2		19.5					
Hawaii Territory	20.9	23.6	38.3	27.0	20.9	19.7	13.2	6.8	3.3		37.1	10.9		
Illinois	71.6	47.8	20.5	15.0	7.1	3.5	3.3	4.8	8.4					
Indiana	131.3	66.0	36.4	21.1	13.0	11.1	8.5	10.3	24.7		16.3	12.7	19.2	17.1
Iowa	101.5	57.7	28.1	28.6		9.7	5.3	8.0	9.2		19.9			
Kansas	120.8	85.3	46.4	29.5	21.2	12.2	11.5	9.9			9.9			
Kentucky	281.9	98.7												
Louisiana	179.8	95.4	41.8	19.9	11.8	11.5	11.5	15.6			21.8			
White	140.4	76.5	30.8	14.9	9.6	8.4	9.3	10.6			21.2			
Colored	252.2	130.2	61.9	29.1	15.9	17.1	13.4	24.8			23.0			
Maryland						2.2	.7	5.3	8.7					
White						.9	.9	4.5	7.8					
Colored						9.1		9.4	13.7					
Michigan	76.9	39.5	24.1	21.8	10.2	6.7	5.1	6.4	11.8		10.0			
Minnesota	55.4	38.9	19.2	17.7	6.7	4.3	5.2	6.3	6.9		16.4			
Mississippi	172.5	118.3	42.8	27.0	17.7	11.2	7.9	6.8			11.5			
White	154.2	102.0	34.2	20.7	11.4	17.6	8.3	5.7			10.0			
Colored	189.6	133.5	50.8	32.7	23.4	15.8	7.5	7.8			13.0			
Montana								11.1						
Nebraska	108.3	59.4	32.8	26.8	23.3	5.9	5.0				11.7			
New Jersey	50.4	25.0	15.0	10.2	2.2	2.2	1.8				7.7	5.0	5.4	5.2
New York ¹	98.2	36.6	23.1	13.0	3.3	2.9	2.0	3.2	8.1		8.8	10.7	7.4	11.2
North Carolina	281.3	116.2	59.2	37.3										
Pennsylvania	95.6	55.0	26.9	20.6	10.0	6.7	4.9	9.7	16.7		14.4	11.8	11.7	17.4
South Carolina	172.7	98.5	51.6	29.7	17.6	13.9	10.7	9.1			11.1	4.6		
South Dakota	124.1	45.2	41.5	38.5	15.6	10.0	11.7	8.6			10.4			
Tennessee	252.2	153.9	71.0	33.4	18.0	13.2	10.4	5.8	19.8		17.9	11.4		
White	238.2	141.4	61.6	27.8	14.7	11.9	9.7	5.9	16.5					
Colored	319.8	214.6	116.6	60.5	34.1	19.2	13.7	5.7	35.7					
Virginia	192.9	88.2	48.7	19.2	9.9	5.0	5.9	9.0	14.2					
White	156.7	63.2	36.6	11.4	5.9	1.9	7.0	3.9	10.1					
Colored	287.5	153.8	80.3	39.7	20.6	13.2	3.3	22.2	24.8					
Wisconsin	75.9	36.3	27.2	20.7	9.9	7.2	6.0	6.6	10.4		10.0			

¹ Exclusive of New York City.

Monthly State mortality statistics—Continued

	1929										Corresponding month for—			
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		1928	1927	1926	1925
POLIOMYELITIS (22)														
Alabama.....	2.4	0.4	0.9	—	2.8	0.5	1.4	0.5	0.5		0.9	1.4	1.4	—
California.....	.9	.8	.8	2.1	—	.8	1.8	1.9	—		1.6	—	—	—
Connecticut.....	—	—	—	—	1.5	.7	.7	—	—		1.5	.7	.8	0.8
Hawaii Territory.....	—	—	—	3.4	—	—	3.3	3.4	—		3.4	—	—	—
Illinois.....	—	.3	—	.3	.2	.2	—	.3	.3		—	—	—	—
Indiana.....	—	.4	—	—	.4	—	—	.4	—		—	—	—	—
Iowa.....	—	1.5	.5	—	—	.5	1.0	1.5	1.5		—	—	—	—
Kansas.....	—	.6	—	—	1.3	.6	.6	1.3	—		.7	—	—	—
Kentucky.....	1.0	.5	—	—	—	—	—	—	—		—	—	—	—
Louisiana.....	.7	1.2	1.3	.6	—	.6	.6	—	—		1.2	—	—	—
Maryland.....	—	—	—	—	—	.7	.8	—	—		—	—	—	—
Michigan.....	.3	.8	.5	.5	.8	1.0	1.0	2.1	2.1		1.3	—	—	—
Minnesota.....	.9	—	.4	.9	—	—	.4	.9	.4		3.9	—	—	—
Mississippi.....	1.5	.7	1.4	—	2.0	2.0	—	—	—		2.0	—	—	—
Nebraska.....	—	.8	—	—	—	.8	1.7	—	—		1.7	—	—	—
New Jersey.....	.3	.6	—	.3	.6	.6	.3	.3	1.5		1.8	—	—	—
New York ¹.....	.7	.2	.2	.4	.2	1.4	3.3	4.1	3.7		3.6	2.8	3.7	2.2
North Carolina.....	.4	1.6	1.2	.8	—	—	—	—	—		—	—	—	—
Pennsylvania.....	.6	.4	—	.5	.7	.5	.7	.6	1.0		.9	3.1	1.0	1.3
South Carolina.....	.7	.6	—	1.3	—	.6	.6	.7	—		2.0	—	—	—
South Dakota.....	3.7	—	—	5.0	—	—	—	—	—		—	—	—	—
Tennessee.....	.5	.9	.5	1.9	1.5	1.9	1.4	1.0	2.4		1.9	—	—	—
Virginia.....	—	1.4	.9	—	—	.9	4.6	1.4	2.3		—	—	—	—
Wisconsin.....	.4	—	—	.8	1.2	.4	—	1.2	.4		—	—	—	—
LETHARGIC ENCEPHALITIS (23)														
Alabama.....	0.5	2.3	1.9	0.5	0.5	0.9	0.5	0.9	0.9		—	—	—	—
California.....	1.4	1.0	2.4	1.6	1.3	1.3	1.3	1.6	—		1.6	—	—	—
Connecticut.....	3.2	2.2	—	1.4	.7	.7	1.4	2.2	1.4		.7	—	—	—
Hawaii Territory.....	—	—	—	—	—	3.3	3.3	3.4	—		—	—	—	—
Illinois.....	2.1	1.1	1.4	1.1	.7	.3	.2	.2	.2		—	—	—	—
Indiana.....	.8	1.1	1.5	.7	1.1	.7	.4	.8	—		—	—	—	—
Iowa.....	1.0	2.4	1.0	1.6	—	.5	—	1.5	1.9		1.0	—	—	—
Kansas.....	—	.6	.7	2.6	—	1.3	.6	—	—		.7	—	—	—
Kentucky.....	.5	—	—	—	—	—	—	—	—		—	—	—	—
Louisiana.....	0	1.2	0	1.8	0	0	0	0	—		1.2	—	—	—
Maryland.....	—	—	—	—	—	—	—	5.4	2.2		—	—	—	—
Michigan.....	1.1	1.0	1.6	2.3	2.1	.5	.3	1.1	1.0		2.1	—	—	—
Minnesota.....	2.2	2.0	1.8	1.7	4.0	2.6	.9	.9	1.7		2.2	—	—	—
Mississippi.....	.7	.7	1.4	.7	0	0	1.3	—	—		1.4	—	—	—
Montana.....	—	—	—	—	—	—	—	2.2	—		—	—	—	—
Nebraska.....	2.8	1.7	0	0	1.7	0	.8	—	—		1.7	—	—	—
New Jersey.....	1.7	1.5	1.0	1.2	1.9	.6	1.2	.3	2.5		1.8	—	—	—
New York ¹.....	.9	1.2	.7	.8	2.4	.6	1.0	.2	.6		—	—	—	—
North Carolina.....	1.8	.8	.4	.4	—	—	—	—	—		—	—	—	—
Pennsylvania.....	2.0	1.0	1.2	1.2	.6	1.0	.7	.7	.7		.5	.6	1.0	1.2
South Carolina.....	1.4	5.1	2.0	4.4	3.3	—	1.3	1.3	—		2.6	2.6	—	—
South Dakota.....	—	1.7	—	1.7	—	—	—	—	—		—	—	—	—
Tennessee.....	1.0	—	1.5	—	.5	1.9	.9	.6	.9		.6	—	—	—
Virginia.....	.5	1.4	2.4	.5	.9	—	1.4	.5	.5		—	—	—	—
Wisconsin.....	2.2	2.0	1.6	2.8	2.5	2.8	.4	1.2	1.2		2.0	—	—	—

¹ Exclusive of New York City.

Monthly State mortality statistics—Continued

	1929									Corresponding month for—			
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	1928	1927	1926	1925
MENINGOCOCCUS MENINGITIS (24)													
Alabama	3.9	1.5		0.5	0.9	0.5	0.5	0.5	0.5				
California	10.3	14.2	12.6	13.2	9.4	4.7	4.1	5.1		0.8			
Connecticut	2.4	3.6	.7	1.4			.7			2.2	1.5	1.5	0.8
Hawaii Territory	18.7	70.9	38.3	50.6	27.9	19.7	3.3	6.8	16.4				
Illinois	7.1	6.7	2.8	3.2	2.6	2.1	2.1	.8	1.8	2.2	1.9	.5	.6
Indiana		1.1	1.9	3.0	1.9	1.1	.7						
Iowa	3.8	2.9	2.0	1.5		1.9	1.0		.5				
Kansas	5.0	3.8	2.7	3.2	2.0	3.2	1.3	2.0		.7			
Louisiana	4.7	4.2	5.6	1.8	1.9	.6	1.8	0		0			
Maryland								.8	1.5				
Michigan	12.5	29.8	37.9	41.8	27.8	19.2	11.0	7.7	7.7	4.1			
Minnesota	2.6	.4	2.2	1.7	1.3	3.5	1.7	.4	.4	1.3			
Mississippi	.7	.7	.7		.7	1.3							
Montana								4.4					
Nebraska	7.4	6.7	2.6	1.7	1.7	.8	2.5			0			
New Jersey	2.4	2.5	2.2	4.6	2.2	2.2	1.2	1.9	2.2	1.5			
New York ¹	1.8	1.0	2.1	1.4	.6	1.0	2.1	.2	1.7				
North Carolina	.4	.4	.4	1.2									
Pennsylvania	2.8	3.1	2.2	3.4	1.2	1.6	2.4	2.1	1.5	.5	.5	.3	.3
South Carolina	2.8	3.2	3.9	2.5	2.0	1.9	.6	3.9		.7	2.0		
South Dakota	3.7	10.0	1.7										
Tennessee	1.0	3.9	3.4		1.9	1.5	2.8	.5	1.5	1.4	2.4		
Virginia	1.5	1.8	1.4	2.7	.9	1.4		.9					
Wisconsin	6.6	10.0	2.9	3.6	4.5	1.2	2.4	1.6	1.6	3.6			

TUBERCULOSIS, ALL FORMS (31-37)

Alabama	83.6	80.5	91.8	88.1	81.3	86.5	78.7	82.8	76.4	74.3	66.1	83.3	82.7
White	62.9	51.9	55.0	45.6	39.1	45.6	37.8	44.9	42.8	38.5	37.2	43.6	
Colored	134.2	146.4	159.4	167.4	159.4	163.5	155.6	154.0	139.8	141.1	118.4	153.8	
California	147.9	149.4	138.6	139.6	130.3	122.8	122.0	109.5		113.5			
Connecticut	77.1	68.2	64.5	66.0	61.5	61.7	61.0	52.6	48.8	63.5	54.9	73.3	53.1
Georgia	60.6	66.9	74.5	72.4	85.9	68.7	59.2		56.2				
Hawaii Territory	89.6	91.2	121.9	124.8	129.0	111.8	105.2	105.5	108.5	121.5	137.7		
Illinois	84.3	95.2	98.4	70.7	73.9	68.3	64.3	54.1	59.1	62.7	70.7	69.7	64.8
Indiana	76.8	79.7	81.6	74.9	81.2	58.2	63.4	63.2	77.6	64.1	57.9	70.9	68.5
Iowa	38.7	35.4	40.6	37.3		35.9	36.4	33.6	24.7	24.7			
Kansas	80.4	41.1	36.5	41.1	42.4	34.7	35.3	33.2		31.2			
Kentucky	121.0	91.3											
Louisiana	91.6	92.4	104.2	90.6	99.2	83.3	70.0	81.7		72.4			
White	61.9	50.4	54.9	47.6	53.0	42.9	36.4	52.0		38.5			
Colored	146.0	169.6	194.7	169.6	184.1	157.6	131.9	136.3		134.5			
Maryland													
White						67.6	70.2	55.6	68.5				
Colored						268.8	209.6	188.3	214.2				
Michigan	72.1	72.3	80.6	85.7	71.3	66.2	60.0	67.3	56.9	58.2			
Minnesota	48.4	60.1	65.3	55.8	57.2	49.7	51.9	46.5	38.1	34.6			
Mississippi	72.1	96.0	98.5	91.4	95.8	83.5	67.7	67.3		78.1			
White	45.8	53.8	41.3	38.6	39.9	30.3	31.1	27.1		37.0			
Colored	96.2	134.7	150.9	139.8	147.0	132.2	99.3	103.9		115.6			
Montana								44.3					
Nebraska	38.9	27.6	42.3	36.0	28.9	29.3	27.6			28.4			
New Jersey	84.3	84.7	84.7	76.1	70.1	73.5	72.4	65.9		73.6	70.7	66.2	68.4
New York ¹	82.8	76.3	80.6	82.3	78.4	64.7	70.3	57.7	58.5	71.8	64.9	77.0	68.1
North Carolina	91.0	89.4	102.7	91.4									
Pennsylvania	69.4	66.7	68.8	69.6	63.6	62.3	56.0	52.6	53.8	58.0	57.6	66.7	66.5
South Carolina	65.0	77.7	71.2	87.8	94.0	79.0	69.5	64.6		53.5	69.2		
South Dakota	57.4	48.5	48.4	60.2	48.4	55.2	65.2	39.7		29.4			
Tennessee	145.9	159.3	146.9	133.2	140.5	112.9	105.9	103.9	104.5	106.8	108.0		
White	119.4	113.0	107.4	102.8	109.1	79.0	81.2	78.6	84.0				
Colored	274.1	266.8	338.3	280.6	292.8	277.6	225.4	221.5	203.4				
Virginia	85.6	84.1	93.6	96.9	78.4	82.3	76.8	74.2	78.6	84.1			
White	65.8	56.3	53.6	58.8	45.7	49.3	48.7	48.3	52.5	60.7			
Colored	137.3	157.1	198.3	196.8	164.1	168.7	150.5	141.9	147.2	145.5			
Wisconsin	47.7	63.8	72.9	47.8	63.4	48.3	46.3	49.0	51.8	42.3			

¹ Exclusive of New York City.

Monthly State mortality statistics—Continued

	1929										Corresponding month for—			
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		1928	1927	1926	1925
CANCER, ALL FORMS (43-49)														
Alabama.....	45.9	41.3	45.0	48.2	54.7	50.8	44.4	53.4	57.2	52.3	48.3	42.1	29.6	
White.....	49.7	46.3	55.8	52.6	53.6	58.9	40.6	59.4	59.6	54.7	50.3	46.6		
Colored.....	30.7	38.2	40.9	39.6	55.9	35.6	51.4	42.3	52.7	47.5	44.7	34.2		
California.....	129.6	135.4	140.7	146.0	144.5	138.8	147.6	137.0	144.7	132.8	128.4	109.5	107.0	
Connecticut.....	114.4	118.4	103.0	116.2	100.8	103.3	119.8	119.4	109.7	51.8				
Georgia.....	41.5	41.5	36.1	39.7	50.1	44.5	47.4							
Hawaii Territory.....	89.6	54.0	59.3	67.5	80.2	59.2	36.2	91.8	69.1	74.2	39.9			
Indiana.....	98.5	90.0	101.9	110.9	90.0	107.1	84.9	112.2	132.9	90.8	100.5	93.5	98.9	
Iowa.....	116.0	114.0	112.7	109.1		111.5	106.2	102.7	81.0	112.0				
Kansas.....	107.3	91.8	96.8	86.6	94.2	93.7	100.7	88.2		103.4				
Kentucky.....	61.8	46.6												
Louisiana.....	64.2	61.0	77.4	75.5	63.0	62.8	69.4	71.1		69.9				
White.....	37.9	58.2	73.2	86.7	66.5	62.5	69.0	74.2		70.3				
Colored.....	78.5	62.5	85.0	54.8	56.6	63.4	70.2	65.5		69.0				
Maryland.....						96.9	116.6	102.4	123.1					
White.....						99.7	124.9	112.0	126.6					
Colored.....						82.0	72.9	51.8	104.8					
Michigan.....	96.0	90.9	98.3	89.0	86.7	100.5	102.8	95.1	95.1	92.6				
Minnesota.....	84.8	112.9	112.2	98.6	96.5	97.3	110.3	113.5	121.5	104.7				
Mississippi.....	56.8	45.4	51.6	52.6	61.1	38.8	50.0	49.6		52.3				
White.....	65.6	56.5	57.0	55.2	78.4	44.1	62.0	49.9		57.0				
Colored.....	48.8	35.3	48.0	50.4	45.5	34.0	39.0	49.3		48.0				
Montana.....								88.4						
Nebraska.....	93.5	92.8	100.2	101.2	100.2	102.2	72.8			82.0				
New Jersey.....	116.7	115.9	105.7	110.9	117.8	123.3	104.5	123.6	113.7	112.2	106.2	108.8	106.6	
New York ¹	136.0	115.4	117.9	128.4	118.1	120.1	121.6	125.9	130.5	123.7	116.1	125.7	134.1	
Pennsylvania.....	99.8	101.4	96.6	98.0	91.0	100.4	93.4	90.8	92.6	96.0	96.9	92.7	93.9	
South Carolina.....	37.8	32.2	36.6	49.1	43.1	43.6	36.6	33.3		41.1	45.5			
South Dakota.....	63.0	51.8	74.3	60.2	69.1	66.9	71.9	83.0		63.9				
Tennessee.....	59.9	57.4	63.2	53.6	56.9	62.1	58.8	63.7	51.8	50.8	63.5			
White.....	59.1	58.5	62.2	50.5	52.5	61.3	56.2	62.2	53.9					
Colored.....	64.0	52.3	68.2	68.8	76.8	66.0	71.5	71.0	41.2					
Virginia.....	63.3	63.6	56.7	50.4	56.2	68.6	59.9	53.4	48.9					
White.....	67.9	65.1	62.0	63.8	59.4	75.8	61.3	55.5	55.0					
Colored.....	51.3	59.5	42.7	48.0	47.9	49.6	56.2	47.9	33.1					
Wisconsin.....	109.0	97.3	104.7	104.9	96.8	111.2	117.6	125.7	119.6	108.7				

DIABETES (57)

Alabama.....	6.3	5.2	10.9	6.4	10.0	6.4	5.0	9.5	8.7	6.9	8.0	9.0	5.3	
White.....	8.5	4.9	12.3	5.6	12.3	4.9	5.6	11.6	6.3	8.4	10.9	9.6		
Colored.....	2.9	6.6	8.2	7.9	5.4	9.2	4.0	5.5	13.2	4.0	2.6	7.9		
California.....	28.9	25.6	21.4	18.1	19.0	20.4	21.4	19.5		16.3				
Connecticut.....	23.8	21.5	14.1	17.2	11.9	15.1	12.2	18.5	23.7	18.2				
Georgia.....	8.1	9.9	6.5	6.3	7.6	10.3			11.0					
Hawaii Territory.....	3.7	10.1	13.9	16.9	17.4	19.7	3.3	17.0	19.7	13.5	10.9			
Indiana.....	14.8	16.7	13.8	14.1	11.9	12.2	16.3	17.2		16.3				
Iowa.....	18.3	16.0	18.0	21.3		16.5	11.6	16.0	20.9	20.4				
Kansas.....	22.0	22.5	22.5	19.2	17.2	15.4	21.2	20.6		17.2				
Kentucky.....	10.2	11.1												
Louisiana.....	15.4	17.5	7.0	10.3	6.2	0.7	9.1	15.0		6.9				
White.....	17.5	22.4	6.7	8.4	2.9	11.2	11.2	18.3		9.6				
Colored.....	11.4	8.6	7.1	13.7	12.4	6.9	5.1	8.8		1.8				
Maryland.....						21.9	13.1	13.6	14.6					
White.....						20.8	13.0	11.7	16.5					
Colored.....						22.8	13.7	23.5	4.6					
Michigan.....	21.9	22.8	21.2	23.3	19.3	20.3	17.4	18.0	15.4	20.5				
Minnesota.....	18.6	21.2	13.9	14.7	15.2	9.5	21.2	13.9	13.0	13.4				
Mississippi.....	5.8	10.5	6.8	7.2	2.0	8.6	4.6	4.1		5.4				
White.....	3.1	6.9	7.1	6.9	1.4	8.3	4.1	4.3		8.5				
Colored.....	8.4	13.9	6.5	7.6	2.6	8.8	5.0	3.9		2.6				
Montana.....								8.9						
Nebraska.....	16.7	28.4	24.2	20.1	17.3	25.9	17.6			13.4				
New Jersey.....	27.0	22.8	24.5	22.2	22.6	22.8	17.9	19.1	24.0	21.3				
New York ¹	29.8	28.1	22.9	27.1	22.3	25.4	20.1	20.9	25.8	25.0	20.4	22.3	16.9	
Pennsylvania.....	26.2	22.5	23.4	21.8	16.2	15.2	13.9	20.3	24.0	20.8	18.0	19.0	17.5	
South Carolina.....	11.2	8.8	5.2	7.6	3.3	10.7	11.4	9.1		6.5	4.6			
South Dakota.....	11.1	28.4	8.6	21.7	20.7	10.0	20.1	8.6		6.9				
Tennessee.....	10.4	12.2	9.2	8.0	9.2	8.0	8.9	10.7	7.5	7.5				
White.....	12.6	13.6	8.2	10.2	7.6	9.1	7.4	9.4	7.9					
Colored.....		5.5	14.2	11.0	17.2	2.8	16.5	17.0	5.5					
Virginia.....	8.6	7.8	10.9	7.8	7.1	10.1	10.1	11.3	10.5					
White.....	6.3	7.6	13.1	5.1	6.5	9.5	11.4	12.4	9.5					
Colored.....	14.7	8.3	5.1	14.9	8.6	11.6	6.6	8.5	13.2					

¹ Exclusive of New York City.

Monthly State mortality statistics—Continued

	1929										Corresponding month for—			
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		1928	1927	1926	1925
DISEASES OF THE NERVOUS SYSTEM (70-80)														
Alabama.....	95.8	100.7	108.3	111.2	97.9	87.0	96.1	98.8	103.0	87.9	-----	-----	-----	-----
White.....	86.9	95.3	97.0	99.5	79.7	69.4	78.5	81.1	89.0	72.9	-----	-----	-----	-----
Colored.....	112.4	110.8	129.4	133.2	132.2	120.0	129.2	132.2	129.2	116.0	-----	-----	-----	-----
California.....	15.8	142.4	143.4	125.0	139.9	130.8	118.9	118.9	-----	126.8	-----	-----	-----	-----
Iowa.....	170.2	141.1	144.3	134.3	-----	123.6	120.7	110.7	111.0	130.0	-----	-----	-----	-----
Kansas.....	162.0	170.0	139.2	143.7	135.9	120.6	132.8	103.4	-----	125.3	-----	-----	-----	-----
Kentucky.....	112.3	98.7	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Louisiana.....	105.6	89.4	91.7	91.2	101.7	79.7	85.7	81.7	-----	97.3	-----	-----	-----	-----
White.....	94.0	68.1	80.0	64.3	85.8	60.0	69.9	73.2	-----	77.1	-----	-----	-----	-----
Colored.....	127.1	128.5	113.3	140.5	131.0	90.3	114.8	97.3	-----	134.5	-----	-----	-----	-----
Maryland.....	-----	-----	-----	-----	-----	115.8	96.9	118.2	132.6	-----	-----	-----	-----	-----
White.....	-----	-----	-----	-----	-----	114.5	94.5	113.8	126.6	-----	-----	-----	-----	-----
Colored.....	-----	-----	-----	-----	-----	123.0	109.4	141.3	164.0	-----	-----	-----	-----	-----
Michigan.....	142.5	151.8	138.6	145.2	126.1	115.2	135.9	120.1	129.5	124.1	-----	-----	-----	-----
Minnesota.....	95.6	112.5	99.7	100.8	82.2	91.3	77.4	78.7	81.8	88.2	-----	-----	-----	-----
Montana.....	-----	-----	-----	-----	-----	-----	77.6	-----	-----	97.0	-----	-----	-----	-----
Nebraska.....	133.3	146.3	108.9	120.4	106.3	77.8	92.8	-----	-----	-----	-----	-----	-----	-----
New Jersey.....	131.0	132.2	128.3	112.5	96.5	103.5	88.7	107.6	108.8	110.9	99.9	119.7	125.3	-----
New York ¹	175.4	170.0	150.4	160.3	119.7	125.9	118.9	126.7	137.1	139.3	142.3	145.6	169.6	-----
Pennsylvania.....	135.5	131.4	122.4	119.6	94.0	96.0	93.6	98.7	104.2	115.4	-----	-----	-----	-----
South Dakota.....	103.7	98.7	96.8	83.6	81.2	70.2	98.7	83.0	-----	77.8	-----	-----	-----	-----
Tennessee.....	104.7	117.2	103.6	106.4	104.1	98.8	83.8	91.9	101.6	-----	-----	-----	-----	-----
White.....	96.2	104.5	90.3	85.9	91.5	81.8	75.5	75.1	93.1	-----	-----	-----	-----	-----
Colored.....	146.2	178.8	167.7	206.3	250.2	181.4	128.7	173.2	142.9	-----	-----	-----	-----	-----
Virginia.....	142.8	123.9	125.7	108.4	108.7	111.6	86.0	105.4	104.7	-----	-----	-----	-----	-----
White.....	114.8	106.8	101.2	88.4	80.5	97.3	60.0	84.2	91.0	-----	-----	-----	-----	-----
Colored.....	216.1	168.7	189.9	160.4	158.0	148.9	153.8	160.6	140.6	-----	-----	-----	-----	-----

CEREBRAL HEMORRHAGE, APOPLEXY (74)

Alabama.....	55.1	53.9	63.7	68.4	56.6	56.3	55.8	69.0	60.9	55.1	55.8	52.5	43.0	-----
White.....	52.8	57.5	54.3	58.9	44.9	42.8	46.3	56.5	51.2	39.2	48.8	42.9	-----	-----
Colored.....	65.7	55.4	79.0	84.4	76.3	81.8	73.8	92.7	79.1	83.1	68.4	69.7	-----	-----
California.....	105.6	97.7	100.9	91.7	95.3	93.8	89.9	81.2	-----	88.9	-----	-----	-----	-----
Georgia.....	76.1	65.8	58.1	67.6	77.5	69.5	59.6	-----	-----	-----	-----	-----	-----	-----
Hawaii Territory.....	71.0	40.5	48.8	50.6	45.3	72.4	55.9	57.8	60.1	84.3	50.7	-----	-----	-----
Indiana.....	126.0	120.1	104.2	107.1	106.5	104.5	85.6	91.9	-----	96.4	112.1	94.2	102.7	-----
Iowa.....	125.6	92.6	108.7	98.4	-----	88.7	89.7	85.7	86.8	92.6	-----	-----	-----	-----
Kansas.....	132.1	133.5	110.8	112.9	106.8	93.0	102.7	81.6	-----	96.8	-----	-----	-----	-----
Kentucky.....	66.9	58.1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Louisiana.....	64.8	54.3	61.2	62.2	61.8	50.1	51.3	59.9	-----	61.8	-----	-----	-----	-----
White.....	56.8	41.0	51.1	44.8	49.1	44.8	39.2	53.0	-----	43.4	-----	-----	-----	-----
Colored.....	79.6	73.8	79.6	94.2	84.9	60.0	73.7	72.6	-----	95.6	-----	-----	-----	-----
Maryland.....	-----	-----	-----	-----	-----	88.9	72.9	84.3	103.6	-----	-----	-----	-----	-----
White.....	-----	-----	-----	-----	-----	88.5	73.7	78.0	98.9	-----	-----	-----	-----	-----
Colored.....	-----	-----	-----	-----	-----	91.1	68.3	117.7	141.3	-----	-----	-----	-----	-----
Michigan.....	90.1	112.1	100.2	102.3	80.6	80.0	82.6	85.3	95.9	92.3	-----	-----	-----	-----
Minnesota.....	60.6	84.4	71.5	77.9	63.0	64.0	58.8	56.8	60.6	67.5	-----	-----	-----	-----
Mississippi.....	78.6	69.7	64.5	77.6	63.2	71.0	64.4	63.9	-----	67.9	-----	-----	-----	-----
White.....	79.4	77.2	59.8	66.2	58.4	55.2	52.4	62.7	-----	65.5	-----	-----	-----	-----
Colored.....	78.1	63.0	69.0	88.2	67.6	85.6	75.4	64.9	-----	70.1	-----	-----	-----	-----
Montana.....	-----	-----	-----	-----	-----	-----	53.4	-----	-----	-----	-----	-----	-----	-----
Nebraska.....	95.4	109.6	82.1	92.8	72.6	60.2	71.1	-----	-----	78.3	-----	-----	-----	-----
New Jersey.....	98.9	97.4	90.1	85.1	67.2	75.5	67.8	78.7	80.1	80.7	-----	-----	-----	-----
New York ¹	138.5	126.8	115.6	120.8	95.1	95.3	84.2	96.4	109.6	104.4	108.0	112.4	133.6	-----
Pennsylvania.....	98.1	92.7	88.4	87.5	71.7	76.0	64.5	71.9	77.7	80.7	-----	-----	-----	-----
South Dakota.....	59.3	60.2	55.3	53.5	50.1	45.2	51.9	48.4	-----	43.2	-----	-----	-----	-----
Tennessee.....	60.4	59.8	55.9	69.6	59.3	53.2	52.7	55.9	63.1	-----	-----	-----	-----	-----
White.....	55.9	55.1	45.8	53.4	51.6	47.1	47.1	48.7	58.5	-----	-----	-----	-----	-----
Colored.....	82.2	82.5	105.2	148.6	96.7	82.5	79.7	90.9	85.2	-----	-----	-----	-----	-----
Virginia.....	102.3	90.5	90.3	71.3	78.4	84.6	57.6	70.4	78.2	-----	-----	-----	-----	-----
White.....	82.6	72.7	73.1	57.5	63.4	74.6	41.1	51.6	69.5	-----	-----	-----	-----	-----
Colored.....	153.8	157.3	135.0	107.5	117.9	110.8	100.9	119.6	100.9	-----	-----	-----	-----	-----

¹ Exclusive of New York City.

Monthly State mortality statistics—Continued

	1929										Corresponding month for—			
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		1928	1927	1926	1925
DISEASES OF THE CIRCULATORY SYSTEM (87-96)														
Alabama.....	142.9	132.7	141.4	140.2	134.3	132.3	138.7	130.0	148.7	133.6				
White.....	120.3	110.7	119.5	113.5	107.9	89.7	107.2	97.8	124.0	113.5				
Colored.....	185.4	174.1	182.6	216.2	183.9	212.3	197.8	190.8	195.1	171.4				
California.....	383.4	372.4	360.2	335.7	326.1	294.1	304.2	286.8		267.3				
Iowa.....	287.2	268.2	282.6	271.6		222.1	190.6	231.0	240.0	224.0				
Kansas.....	216.7	198.3	198.9	198.0	179.0	160.4	158.5	175.0		169.7				
Kentucky.....	198.5	191.9												
Louisiana.....	242.0	213.7	209.6	195.0	195.9	196.8	178.1	175.3		184.7				
White.....	194.7	179.0	164.8	148.3	154.2	149.2	140.8	128.2		141.6				
Colored.....	330.0	277.5	292.0	280.9	272.6	284.3	246.7	262.0		263.7				
Maryland.....						239.7	140.4	219.8	241.9					
White.....						230.7	105.5	190.0	230.7					
Colored.....						282.5	231.5	282.5	300.7					
Michigan.....	273.2	276.7	266.3	278.5	245.4	215.2	206.5	219.7	219.5	240.3				
Minnesota.....	185.6	191.6	178.8	189.5	176.1	171.3	153.1	161.4	168.3	172.2				
Montana.....								139.6						
Nebraska.....	216.6	219.1	173.7	209.1	146.9	168.2	13.5			152.2				
New Jersey.....	344.9	305.4	297.4	258.5	255.1	233.9	192.3	222.6	108.8	250.8	229.9	211.6	224.4	
New York ¹	441.9	382.3	369.9	341.2	297.2	301.3	305.2	304.7	337.7	335.4	309.8	326.1	339.3	
Pennsylvania.....	299.7	278.4	259.7	248.0	217.5	206.7	190.9	201.2	237.3	236.1				
South Carolina.....	292.3	291.2	268.6	290.9	312.0	272.9	296.9	277.4		283.3	273.0			
South Dakota.....	150.0	155.5	134.8	160.6	115.8	95.3	148.9	100.2		129.6				
Tennessee.....	159.4	160.0	136.6	149.2	149.8	142.6	120.0	134.2	135.1					
White.....	134.5	130.0	116.2	132.3	119.1	113.0	97.4	111.5	109.6					
Colored.....	280.2	305.4	235.9	231.1	298.5	285.8	219.9	244.2	258.4					
Virginia.....	217.7	218.6	164.4	185.2	174.3	149.1	140.4	145.1	177.9					
White.....	191.5	174.4	150.9	159.9	145.0	130.8	105.5	121.5	157.4					
Colored.....	278.3	334.1	200.0	251.4	251.2	196.8	231.5	206.8	231.6					

DISEASES OF THE HEART (87-90)

Alabama.....	125.6	117.9	132.6	140.4	125.0	124.0	125.4	122.0	136.8	121.6	91.9	98.4	85.5	
White.....	108.6	103.0	110.8	105.1	96.9	88.9	93.9	90.5	111.4	103.0	77.3	82.0		
Colored.....	175.2	163.5	171.7	205.7	177.1	193.8	184.6	181.3	184.6	155.6	118.4	127.5		
California.....	338.2	329.2	317.0	299.0	298.3	258.7	287.5	259.6		223.0				
Connecticut.....	219.2	212.4	194.3	190.9	155.0	170.0	154.3	153.5	187.1	156.8	155.9	161.6	172.4	
Georgia.....	96.9	95.9	107.5	105.9	141.7	117.7	102.9		117.3					
Hawaii Territory.....	141.9	138.5	132.5	141.7	118.5	92.1	102.0	119.1	95.4	114.7	83.3			
Indiana.....	198.7	243.2	199.2	228.0	222.2	187.6	167.9	186.2		201.7	179.4	158.3	148.4	
Iowa.....	254.0	233.7	251.1	230.6		197.4	167.3	209.5	209.5	190.6				
Kansas.....	185.4	173.9	173.1	175.2	153.2	139.9	131.5	151.8		153.2				
Kentucky.....	158.3	160.0												
Louisiana.....	221.3	193.8	192.8	183.6	177.8	182.9	167.3	159.7		179.1				
White.....	178.6	160.4	150.3	157.1	137.8	138.9	131.5	115.6		134.9				
Colored.....	299.6	255.2	270.8	268.9	251.3	263.8	233.0	240.7		260.2				
Maryland.....						204.0	199.6	183.7	218.6					
White.....						198.6	184.7	174.8	208.1					
Colored.....						232.4	278.0	230.7	273.4					
Michigan.....	235.7	240.8	238.5	240.0	218.1	285.2	177.7	180.6	188.5	215.4				
Minnesota.....	150.5	147.5	100.1	152.7	136.8	140.6	121.5	127.8	132.8	144.5				
Mississippi.....	112.8	99.3	108.7	111.8	108.0	127.0	111.8	87.6		99.9				
White.....	114.5	102.0	95.5	95.1	84.1	91.0	104.8	69.8		88.3				
Colored.....	111.5	97.0	117.1	127.2	130.1	159.9	118.1	103.9		110.4				
Montana.....								126.3						
Nebraska.....	196.3	194.0	173.7	187.3	132.2	145.5	117.1			136.3				
New Jersey.....	324.4	277.6	276.1	236.0	226.7	214.8	273.5	207.3	241.9	229.0				
New York ¹	391.7	338.9	322.0	292.6	257.9	262.4	261.6	258.6	292.4	291.3	264.4	284.6	288.9	
Pennsylvania.....	273.9	248.8	232.3	221.3	196.7	185.9	172.8	178.3	214.3	201.0	199.5	202.0	182.0	
South Dakota.....	129.6	138.8	115.8	142.2	102.0	76.9	117.1	95.0		112.3				
Tennessee.....	148.0	150.1	125.0	137.9	135.7	128.0	106.4	122.5	120.9	126.1				
White.....	125.1	121.5	92.7	122.6	108.5	97.7	83.5	102.1	94.3					
Colored.....	258.9	288.9	201.8	211.8	267.2	274.8	217.1	221.5	250.1					
Virginia.....	193.4	202.6	149.3	171.0	156.4	129.5	121.6	129.0	158.7					
White.....	171.4	160.5	134.5	145.4	129.3	121.3	89.1	107.8	137.8					
Colored.....	250.9	312.6	188.0	238.2	227.3	186.9	206.7	184.6	213.4					

¹ Exclusive of New York City.

Monthly State mortality statistics—Continued

	1929										Corresponding month for—			
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		1928	1927	1926	1925

DISEASES OF THE RESPIRATORY SYSTEM (97-107)

Alabama	123.1	125.4	102.6	84.7	61.0	37.1	40.7	42.1	68.6	65.4				
White	100.9	114.9	84.7	63.1	48.5	24.5	34.3	39.8	58.9	59.6				
Colored	165.0	145.1	136.2	125.3	84.5	60.7	52.7	46.3	87.0	76.5				
California	152.2	167.2	139.1	98.5	92.1	64.4	56.3	63.6		68.1				
Iowa	112.7	91.2	82.2	71.3		43.2	35.4	47.6	54.3	61.6				
Kansas	135.0	141.2	86.2	50.0	33.8	20.5	37.2	27.8		32.5				
Kentucky	197.6	134.2												
Louisiana	126.3	129.2	80.5	65.2	61.8	51.3	56.2	54.3		54.9				
White	87.8	97.9	51.1	42.0	49.1	28.9	39.2	37.6		38.5				
Colored	197.2	186.7	134.5	107.9	84.9	92.5	87.4	85.0		84.9				
Maryland						56.1	53.2	61.0	96.9					
White						34.7	37.3	48.4	74.6					
Colored						168.6	136.7	127.1	209.6					
Michigan	155.5	147.0	130.1	121.8	87.5	42.6	45.4	51.9	79.0	76.2				
Minnesota	74.8	83.1	74.2	71.8	49.2	35.0	32.9	43.4	64.9	56.2				
Montana								24.4						
Nebraska	131.5	107.9	75.2	56.9	40.6	22.6	17.7			27.6				
New Jersey	203.0	174.1	116.9	101.4	62.7	50.5	45.3	40.4	69.9	78.3				
New York ¹	185.4	152.6	134.2	109.2	73.6	46.7	48.2	51.1	86.2	82.5	71.6	82.3	103.6	
Pennsylvania	184.2	164.4	117.6	99.1	67.1	47.7	47.8	61.2	90.1	88.9				
South Dakota	93.1	92.0	81.2	75.3	44.9	46.8	55.2	31.1		31.1				
Tennessee	157.3	156.7	97.7	74.8	50.1	44.7	50.4	66.6	79.5					
White	133.9	127.7	83.3	59.0	37.5	36.9	41.5	54.6	67.6					
Colored	271.1	297.1	167.7	151.3	110.9	82.5	93.4	125.0	137.4					
Virginia	132.6	119.8	79.9	71.8	41.6	35.2	38.4	41.1	62.2					
White	98.7	97.3	61.4	53.7	30.7	31.0	26.5	26.8	43.0					
Colored	221.6	178.6	128.2	119.1	70.1	46.3	69.5	78.6	112.5					

PNEUMONIA, ALL FORMS (100, 101)

Alabama	111.6	110.5	97.9	79.8	53.4	32.5	34.8	31.7	56.7	54.1	57.2	58.7	33.2	
White	93.9	107.2	80.4	60.3	41.3	21.7	28.0	32.6	47.7	46.3	45.9	51.7		
Colored	160.6	133.2	129.4	116.0	76.3	52.7	47.5	50.0	73.8	68.6	77.6	71.0		
California	135.6	152.5	119.4	83.5	76.9	54.8	45.2	47.8		57.4				
Connecticut	232.0	142.8	104.5	86.8	54.1	43.8	35.2	44.5	66.7	73.7	59.4	55.1	96.2	
Georgia	97.3	77.6	70.3	46.7	52.4	34.2	24.3		47.1					
Hawaii Territory	254.0	158.7	217.5	202.4	139.4	121.7	157.9	105.5	102.0	134.9	155.8			
Illinois	74.2	120.0	92.2	86.6	57.6	34.2	36.2	36.2	50.9	60.3	51.7	47.0	51.9	
Indiana	169.5	137.9	83.5	85.6	50.2	24.8	38.2	55.2	94.1	61.5	67.7	65.2	70.8	
Iowa	96.1	77.6	71.7	40.2		36.4	26.7	37.6	45.1	50.4				
Kansas	113.0	125.8	76.9	41.1	23.9	13.5	28.2	23.2		25.9				
Kentucky	180.3	116.7												
Louisiana	111.6	118.3	68.0	52.5	68.0	43.5	45.9	48.7		41.2				
White	80.5	88.6	41.4	31.7	45.3	24.2	29.8	32.8		28.9				
Colored	168.8	173.0	116.8	90.8	81.4	78.8	75.4	77.9		63.7				
Maryland						46.6	45.2	52.0	80.6					
White						27.8	31.2	41.2	66.8					
Colored						145.8	118.5	108.3	205.0					
Michigan	136.5	125.2	114.2	105.7	73.4	33.6	33.9	41.3	62.8	61.3				
Minnesota	71.4	72.2	68.4	65.3	39.8	28.1	29.4	36.2	56.2	51.0				
Mississippi	107.0	110.4	63.2	38.8	26.5	15.1	19.7	38.7		29.9				
White	103.8	106.2	48.4	41.4	17.1	13.8	23.4	44.2		22.8				
Colored	110.1	114.6	76.8	36.5	35.0	16.4	16.3	33.8		36.4				
Montana								17.7						
Nebraska	115.7	96.2	65.7	51.0	35.4	16.7	11.7			18.4				
New Jersey	187.3	153.8	99.4	91.2	51.6	44.1	37.0	39.8	61.3	68.4	32.0	33.3	54.9	
New York ¹	165.8	135.6	116.7	92.4	62.8	37.6	39.3	42.5	71.8	65.9	59.8	66.5	87.8	
North Carolina	177.5	130.2	113.5	81.0										
Pennsylvania	162.0	142.8	97.7	85.0	52.7	38.9	37.5	49.3	75.3	72.8	67.7	78.3	92.2	
South Carolina	125.2	130.1	90.7	77.1	62.0	37.9	44.8	58.1						
South Dakota	77.8	85.3	62.2	68.6	34.6	26.8	46.8	25.9		20.7				
Tennessee	146.4	140.7	86.6	66.4	39.4	33.9	41.4	55.9	66.4	59.3	57.3			
White	125.1	114.7	73.9	53.4	31.7	28.4	34.1	46.9	55.6					
Colored	249.8	266.8	147.8	129.3	76.8	60.5	79.7	99.4	118.2					
Virginia	130.5	104.7	68.0	60.4	36.9	26.5	28.8	31.7	52.1					
White	90.3	87.2	50.9	44.9	28.1	24.0	20.2	20.2	36.0					
Colored	199.6	150.5	112.8	100.9	59.8	33.1	51.3	61.5	94.3					
Wisconsin	120.5	88.9	84.5	78.9	49.0	30.0	29.9	38.3	0	58.2				

¹ Exclusive of New York City.

Monthly State mortality statistics—Continued.

	1929										Corresponding month for—			
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		1928	1927	1926	1925
DISEASES OF THE DIGESTIVE SYSTEM (108-127)														
Alabama.....	51.2	155.6	61.9	106.2	147.5	139.1	107.5	100.7	67.7	91.5	---	---	---	---
White.....	46.6	141.6	46.3	101.6	143.4	136.0	100.2	92.0	64.5	94.6	---	---	---	---
Colored.....	59.9	182.0	91.3	104.7	155.3	145.0	121.3	117.2	73.8	85.7	---	---	---	---
California.....	85.6	91.2	94.5	92.0	103.9	112.9	103.6	111.1	96.7	96.7	---	---	---	---
Hawaii Territory.....	186.8	209.2	198.7	182.2	174.3	180.9	157.9	132.7	115.1	124.8	173.9	---	---	---
Iowa.....	58.0	73.7	66.6	62.1	---	68.9	62.1	66.6	62.1	76.1	---	---	---	---
Kansas.....	63.9	73.1	84.2	62.9	76.3	85.3	91.1	82.2	---	141.2	---	---	---	---
Kentucky.....	52.1	55.3	---	---	---	---	---	---	---	---	---	---	---	---
Louisiana.....	78.2	80.9	78.6	112.3	128.5	122.6	105.7	111.1	---	114.2	---	---	---	---
White.....	76.4	79.3	56.9	87.7	86.7	106.3	86.7	86.7	---	108.9	---	---	---	---
Colored.....	81.5	83.9	118.6	157.0	205.3	152.4	140.5	155.8	---	123.9	---	---	---	---
Maryland.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---
White.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Colored.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Michigan.....	92.2	82.8	80.6	90.5	89.0	78.2	95.7	128.3	101.6	94.6	---	---	---	---
Minnesota.....	59.3	62.3	63.5	67.9	59.0	64.5	64.0	63.0	56.2	64.9	---	---	---	---
Montana.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Nebraska.....	81.5	73.6	73.4	71.9	55.3	71.1	86.1	---	---	107.0	---	---	---	---
New Jersey.....	61.1	86.3	76.1	75.8	73.6	74.6	71.8	92.7	79.5	78.6	66.9	55.7	---	60.8
New York ¹	71.9	74.2	69.9	71.5	62.0	64.7	79.0	93.6	80.2	73.7	85.1	94.1	105.3	---
Pennsylvania.....	74.8	73.6	75.0	61.4	62.9	71.5	87.8	120.3	82.3	86.4	---	---	---	---
South Dakota.....	72.2	68.6	58.8	78.6	44.9	58.5	80.3	95.0	---	74.3	---	---	---	---
Tennessee.....	60.4	66.8	70.0	71.1	110.9	171.8	133.2	98.2	101.2	---	---	---	---	---
White.....	47.1	60.7	55.1	63.0	142.1	160.7	127.2	90.9	80.1	---	---	---	---	---
Colored.....	124.9	96.3	142.1	110.0	104.4	225.4	162.2	133.5	159.4	---	---	---	---	---
Virginia.....	48.1	55.8	52.0	60.4	102.5	104.3	99.7	69.9	64.9	---	---	---	---	---
White.....	38.5	46.1	47.7	36.7	73.8	87.9	87.8	59.4	56.9	---	---	---	---	---
Colored.....	73.3	81.0	63.2	122.4	177.7	147.2	130.7	97.4	86.0	---	---	---	---	---

DIARRHEA AND ENTERITIS UNDER 2 YEARS (113)

Alabama.....	5.8	7.0	12.4	40.8	64.8	62.7	33.4	28.4	22.0	30.7	30.6	35.0	33.6	---
White.....	3.9	10.5	5.8	38.5	65.9	67.3	30.8	26.8	21.0	37.1	25.5	39.9	---	---
Colored.....	10.2	1.3	24.5	44.8	62.7	54.1	38.2	31.3	23.7	18.5	11.8	26.3	---	---
California.....	9.2	8.5	11.2	17.6	23.0	28.4	27.1	27.0	---	19.8	---	---	---	---
Connecticut.....	15.9	5.7	5.2	11.5	8.2	5.0	17.9	---	---	---	---	---	---	---
Georgia.....	6.9	7.4	12.2	22.8	35.3	29.8	27.6	---	12.9	---	---	---	---	---
Hawaii Territory.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Indiana.....	6.6	11.9	5.7	7.4	10.3	25.6	47.1	43.7	31.0	28.2	37.4	41.8	53.3	---
Iowa.....	1.1	2.9	4.5	2.9	---	3.9	5.8	4.5	1.9	12.1	---	---	---	---
Kansas.....	5.7	12.2	7.3	4.5	6.0	12.2	19.2	24.5	---	40.4	---	---	---	---
Kentucky.....	8.2	8.3	---	---	---	---	---	---	---	---	---	---	---	---
Louisiana.....	19.4	26.0	22.4	34.4	49.3	34.4	31.4	29.9	---	26.8	---	---	---	---
White.....	17.5	23.3	15.4	21.4	27.0	28.9	22.4	19.3	---	26.0	---	---	---	---
Colored.....	22.7	30.8	35.4	58.2	90.3	44.5	48.0	49.6	---	28.3	---	---	---	---
Maryland.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---
White.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Colored.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Michigan.....	19.2	9.0	11.1	12.6	11.4	10.0	23.1	44.3	28.0	25.9	---	---	---	---
Minnesota.....	4.3	4.3	3.6	3.9	3.1	2.2	6.5	3.6	4.3	6.1	---	---	---	---
Mississippi.....	4.4	7.2	12.2	32.9	55.0	50.0	25.0	18.3	---	24.5	---	---	---	---
White.....	3.1	4.1	14.3	28.9	59.8	49.6	15.2	18.5	---	27.1	---	---	---	---
Colored.....	5.6	10.1	10.4	36.6	105.4	50.4	33.9	18.2	---	22.1	---	---	---	---
Montana.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Nebraska.....	9.3	5.9	5.2	3.3	3.5	3.3	12.5	---	---	23.4	---	---	---	---
New Jersey.....	7.2	10.2	10.5	7.7	6.4	10.2	17.3	29.6	19.4	16.9	17.3	23.7	32.1	---
New York ¹	9.6	9.5	7.9	8.7	7.2	6.0	13.9	23.9	10.7	15.2	19.9	27.9	38.5	---
North Carolina.....	10.2	4.0	11.2	38.5	---	---	---	---	---	---	---	---	---	---
Pennsylvania.....	14.0	15.2	12.3	10.2	8.6	15.6	28.4	52.2	26.4	30.0	42.3	58.3	67.5	---
South Dakota.....	5.6	6.7	6.9	3.3	1.7	1.7	10.0	17.3	---	12.1	---	---	---	---
Tennessee.....	3.6	8.9	6.8	10.4	38.9	77.7	53.6	36.5	20.2	35.8	21.8	---	---	---
White.....	3.8	8.0	5.3	7.4	38.7	74.4	55.6	38.7	27.8	---	---	---	---	---
Colored.....	3.1	13.8	14.2	24.8	39.8	93.5	44.0	25.6	35.7	---	---	---	---	---
Virginia.....	5.6	5.5	3.3	12.3	37.3	50.3	37.0	27.9	16.5	22.9	---	---	---	---
White.....	4.2	4.4	3.3	6.3	18.9	41.7	32.9	26.8	17.1	18.9	---	---	---	---
Colored.....	9.2	8.3	3.4	28.1	85.5	72.8	48.0	30.8	14.9	33.1	---	---	---	---
Wisconsin.....	15.9	14.4	11.9	14.8	9.5	6.8	8.0	9.4	8.8	8.4	---	---	---	---

¹ Exclusive of New York City.

Monthly State mortality statistics—Continued

	1929									Corresponding month for—			
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	1928	1927	1926	1925
NEPHRITIS (128,129)													
Alabama.....	85.6	95.2	91.7	104.3	96.9	95.2	92.9	78.1	99.3	.....	.....	.....	.....
White.....	76.0	78.5	79.7	80.6	71.0	84.1	79.2	60.1	70.1	.....	.....	.....	.....
Colored.....	103.6	126.6	114.4	149.0	145.8	116.0	118.7	106.3	154.3	.....	.....	.....	.....
California.....	128.5	106.5	128.2	106.7	108.7	98.5	91.0	84.9	.....	100.1	.....	.....	.....
Connecticut.....	100.9	67.4	68.2	116.2	54.9	46.6	35.2	58.3	70.3	60.5	.....	.....	.....
Georgia.....	134.7	105.1	117.8	111.1	123.1	115.8	111.8	.....	128.8	.....	.....	.....	.....
Indiana.....	85.4	100.1	95.0	92.7	74.3	73.8	63.8	70.9	.....	75.6	75.1	84.8	76.1
Iowa.....	66.9	60.1	61.6	56.7	.....	42.2	36.9	52.1	41.2	52.4	.....	.....	.....
Kansas.....	104.4	98.8	94.8	93.0	92.8	77.6	69.9	80.2	.....	88.2	.....	.....	.....
Kentucky.....	84.8	68.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Louisiana.....	131.7	111.1	112.3	115.9	120.4	99.0	108.7	106.7	.....	93.6	.....	.....	.....
White.....	115.6	87.6	84.8	79.3	90.6	82.1	88.6	90.6	.....	69.4	.....	.....	.....
Colored.....	161.2	154.1	162.8	183.3	175.2	130.2	145.6	136.3	.....	138.0	.....	.....	.....
Maryland.....	.....	.....	.....	.....	.....	123.9	133.3	124.2	157.4	.....	.....	.....	.....
White.....	.....	.....	.....	.....	.....	117.1	127.5	119.2	148.3	.....	.....	.....	.....
Colored.....	.....	.....	.....	.....	.....	191.4	154.9	107.8	205.0	.....	.....	.....	.....
Michigan.....	75.4	74.9	73.4	67.4	72.6	59.8	62.6	62.8	61.0	68.2	.....	.....	.....
Minnesota.....	66.2	56.7	54.1	49.7	48.7	42.4	89.4	40.2	46.7	52.8	.....	.....	.....
Mississippi.....	115.0	107.8	112.1	70.3	117.5	106.6	92.0	99.9	.....	81.5	.....	.....	.....
White.....	97.7	86.9	89.6	101.2	74.1	84.1	74.5	63.4	.....	80.9	.....	.....	.....
Colored.....	131.1	127.2	128.5	132.7	147.0	127.2	108.1	128.5	.....	76.6	.....	.....	.....
Montana.....	.....	.....	.....	.....	.....	.....	.....	68.7	.....	.....	.....	.....	.....
Nebraska.....	64.8	62.7	57.0	51.0	51.8	56.9	51.8	.....	.....	44.3	.....	.....	.....
New Jersey.....	125.5	110.6	104.4	102.6	101.3	85.7	78.0	89.8	99.5	91.5	90.8	94.7	101.1
New York ¹	129.1	122.2	124.1	111.0	103.4	91.0	99.3	94.7	102.8	100.6	101.8	108.0	116.9
Pennsylvania.....	112.5	109.8	102.3	105.8	88.6	83.9	80.7	85.4	98.4	99.9	85.4	100.0	100.0
South Dakota.....	27.8	26.8	31.1	35.1	36.3	38.5	51.9	32.8	.....	41.5	.....	.....	.....
Tennessee.....	65.1	78.6	77.3	69.2	71.0	73.9	69.6	76.4	73.9	.....	.....	.....	.....
White.....	57.8	64.7	67.5	62.5	59.8	57.9	60.2	64.5	60.2	.....	.....	.....	.....
Colored.....	100.5	145.8	125.1	101.8	125.1	151.2	115.4	133.5	140.2	.....	.....	.....	.....
Virginia.....	107.8	109.3	89.8	74.1	91.7	97.4	97.8	95.4	89.6	.....	.....	.....	.....
White.....	99.4	99.9	79.7	67.0	81.0	88.5	72.7	78.4	81.5	.....	.....	.....	.....
Colored.....	130.0	134.0	116.2	92.6	119.6	120.8	129.0	140.1	110.8	.....	.....	.....	.....

PNEUMONIA (143-150)

Alabama.....	17.4	13.9	23.8	23.9	29.0	12.4	25.2	23.2	18.3	21.1	14.5	17.0	17.8
White.....	14.0	13.3	17.4	19.6	20.3	8.4	20.3	13.8	12.6	19.6	13.1	17.0	.....
Colored.....	26.3	17.1	35.4	31.6	45.0	19.8	34.3	40.9	29.0	23.7	17.1	17.0	.....
California.....	6.0	9.3	12.8	10.3	7.7	11.4	9.6	6.7	.....	10.4	.....	.....	.....
Connecticut.....	16.7	10.0	4.4	5.0	12.6	8.6	8.6	3.7	8.6	9.5	11.9	7.6	13.9
Georgia.....	19.1	14.7	14.8	19.5	13.3	13.2	18.0	.....	18.7	.....	.....	.....	.....
Indiana.....	9.9	15.9	10.7	12.2	15.3	10.2	11.9	10.7	9.7	9.3	9.7	10.9	7.2
Iowa.....	9.7	13.1	10.5	8.2	.....	8.2	8.2	11.0	7.3	12.1	.....	.....	.....
Kansas.....	10.7	14.8	10.6	11.5	16.6	12.2	12.2	5.3	.....	9.9	.....	.....	.....
Kentucky.....	11.7	12.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Louisiana.....	11.4	22.9	25.6	21.1	16.8	21.7	25.4	23.0	.....	19.3	.....	.....	.....
White.....	10.3	15.8	25.1	16.8	10.6	12.1	17.7	16.4	.....	18.3	.....	.....	.....
Colored.....	13.3	36.0	28.5	29.1	28.3	39.4	39.4	40.7	.....	21.2	.....	.....	.....
Maryland.....	.....	.....	.....	.....	.....	11.7	14.6	7.5	7.3	.....	.....	.....	.....
White.....	.....	.....	.....	.....	.....	8.7	13.0	6.3	5.2	.....	.....	.....	.....
Colored.....	.....	.....	.....	.....	.....	27.3	22.8	14.1	18.2	.....	.....	.....	.....
Michigan.....	14.2	17.2	17.2	11.0	13.5	16.9	10.0	10.6	11.0	9.7	.....	.....	.....
Minnesota.....	8.7	9.1	8.5	5.2	7.2	4.8	8.2	4.5	2.9	5.6	.....	.....	.....
Montana.....	.....	.....	.....	.....	.....	.....	.....	8.9	.....	.....	.....	.....	.....
Nebraska.....	13.0	13.4	6.9	10.9	14.7	10.0	6.7	.....	.....	12.5	.....	.....	.....
New Jersey.....	8.9	10.2	10.5	10.2	8.9	9.2	10.8	8.9	8.0	12.6	.....	.....	.....
New York ¹	11.4	12.4	4.1	11.2	8.5	8.3	6.8	8.8	8.5	7.6	9.0	6.8	9.0
South Dakota.....	14.8	13.4	15.6	6.7	6.9	13.4	11.7	8.6	.....	12.1	.....	.....	.....
Tennessee.....	12.5	17.4	20.9	16.0	8.3	17.4	15.5	13.1	12.2	.....	.....	.....	.....
White.....	8.2	15.3	20.0	13.6	8.8	15.3	13.1	13.5	7.4	.....	.....	.....	.....
Colored.....	33.5	27.5	25.5	27.5	5.7	27.5	27.5	11.4	33.7	.....	.....	.....	.....
Virginia.....	16.2	13.3	15.1	17.8	13.7	13.3	18.3	9.0	10.1	.....	.....	.....	.....
White.....	10.5	10.1	10.5	10.1	11.1	10.7	9.5	5.9	7.0	.....	.....	.....	.....
Colored.....	31.1	21.5	27.3	38.0	20.5	19.9	23.2	17.1	18.2	.....	.....	.....	.....

¹ Exclusive of New York City.

DEATH RATES IN A GROUP OF INSURED PERSONS

Rates for Principal Causes of Death for November, 1929

The accompanying table, taken from the Statistical Bulletin for December, 1929, issued by the Metropolitan Life Insurance Co., presents the mortality record of the industrial insurance department of the company for November and the cumulative death rates for the period January to November, inclusive, for the years 1929 and 1928, for the principal causes of death. The rates are based on a strength of approximately 19,000,000 insured persons in the United States and Canada.

It is stated that the death rate in this group of persons was lower in November, 1929, than in any previous November on record. More or less noteworthy declines as compared with November, 1928, are shown for typhoid fever, measles, influenza, tuberculosis, cerebral hemorrhage, heart disease, respiratory conditions other than pneumonia, diarrheal complaints, Bright's disease, puerperal diseases, homicides, and accidents. On the other hand, somewhat higher death rates were registered for scarlet fever, whooping cough, diphtheria, cancer, and pneumonia, and there was an increase of 17.2 per cent in the mortality from automobile accidents. The November death rate for all causes combined was 5.4 per cent below that for October.

The year-to-date death rate at the end of November was 9.2 per 1,000. This is practically the same as the death rate for the corresponding period of last year. Among the policyholders living west of the Rocky Mountains, the cumulative death rate was 6.7 per 1,000, while for the remainder of the United States it was 9.4. These figures are identical with those recorded for the like period of 1928.

The tuberculosis death rate in this group has been lower this year than ever before, and it is stated that new minimums will also be established for diphtheria, puerperal diseases, and, in all probability, for typhoid fever.

Death rates (annual basis) per 100,000 for principal causes of death, November, 1929

[Industrial department, Metropolitan Life Insurance Co.]

Cause of death	Death rate per 100,000 lives exposed ¹				
	November, 1929	October, 1929	November, 1928	Cumulative, January to November	
				1929	1928
Total, all causes.....	790.7	836.1	830.8	920.6	915.7
Typhoid fever.....	2.4	3.6	2.9	2.3	2.7
Measles.....	.4	.4	.9	3.0	5.5
Scarlet fever.....	1.8	1.3	1.5	2.5	2.7
Whooping cough.....	3.7	3.8	3.0	5.8	5.6
Diphtheria.....	11.8	8.3	9.9	8.4	9.6
Influenza.....	13.1	9.1	14.2	42.2	22.0
Tuberculosis (all forms).....	73.2	79.7	76.3	85.9	91.1
Tuberculosis of respiratory system.....	65.4	68.9	66.3	75.9	79.7
Cancer.....	73.8	76.6	72.3	76.8	75.2
Diabetes mellitus.....	16.6	16.7	16.6	18.2	17.5
Cerebral hemorrhage.....	50.6	55.5	52.2	56.2	56.1
Organic diseases of heart.....	126.1	128.1	138.6	143.8	142.0
Pneumonia (all forms).....	64.1	53.1	63.7	87.3	88.6
Other respiratory diseases.....	9.2	10.4	17.0	11.8	13.3
Diarrhea and enteritis.....	15.0	31.6	19.8	20.9	24.7
Bright's disease (chronic nephritis).....	63.1	66.8	65.8	68.3	70.3
Puerperal state.....	11.1	10.4	11.8	13.1	14.0
Suicides.....	7.7	8.4	7.7	8.4	8.3
Homicides.....	5.3	7.6	6.7	6.3	6.5
Other external causes (excluding suicides and homicides).....	61.7	65.7	64.0	63.4	62.8
Traumatism by automobiles.....	23.9	25.7	20.4	19.9	17.8
All other causes.....	179.8	199.1	186.5	196.9	197.0

¹ All figures include infants insured under 1 year of age.

DEATHS DURING WEEK ENDED JANUARY 11, 1930

Summary of information received by telegraph from industrial insurance companies for the week ended January 11, 1930, and corresponding week of 1929. (From the Weekly Health Index, January 15, 1930, issued by the Bureau of the Census, Department of Commerce)

	Week ended Jan 11, 1930	Corresponding week, 1929
Policies in force.....	75,421,100	72,792,965
Number of death claims.....	16,253	19,612
Death claims per 1,000 policies in force, annual rate.....	11.2	14.0

Deaths from all causes in certain large cities of the United States during the week ended January 11, 1930, infant mortality, annual death rate, and comparison with corresponding week of 1929. (From the Weekly Health Index, January 15, 1930, issued by the Bureau of the Census, Department of Commerce)

City	Week ended Jan. 11, 1930		Annual death rate per 1,000, corresponding week, 1929	Deaths under 1 year		Infant mortality rate, week ended Jan. 11, 1930 ¹
	Total deaths	Death rate ¹		Week ended Jan. 11, 1930	Corresponding week, 1929	
Total (65 cities).....	7,588	13.3	20.5	721	1,047	84
Akron.....	32			6	9	55
Albany.....	43	18.6	21.7	1	4	22
Atlanta.....	83	17.0	23.1	4	5	42
White.....	43			2	3	63
Colored.....	40	(⁹)	(⁹)	2	2	32
Baltimore.....	244	15.3	24.9	19	34	65
White.....	185			11	20	47
Colored.....	59	(⁹)	(⁹)	8	14	129
Birmingham.....	50	11.7	61.4	6	21	56
White.....	21			4	11	62
Colored.....	29	(⁹)	(⁹)	2	10	47
Boston.....	262	17.1	19.3	36	28	101
Bridgeport.....	43			6	3	103
Buffalo.....	160	15.0	25.1	17	26	76
Cambridge.....	35	14.5	16.2	4	4	74
Camden.....	36	13.9	23.5	7	7	127
Canton.....	17	7.6	21.0	3	5	74
Chicago.....	768	12.7	17.4	79	111	70
Cincinnati.....	134			9	25	53
Cleveland.....	196	10.1	21.5	19	39	57
Columbus.....	71	12.4	29.5	2	16	20
Dallas.....	55	13.2	25.4	7	11	
White.....	43			6	8	
Colored.....	12	(⁹)	(⁹)	1	3	
Dayton.....	37	10.5	25.2	6	8	89
Denver.....	79	14.0	19.3	2	11	21
Des Moines.....	43	14.8	13.7	1	0	17
Detroit.....	304	11.5	20.6	55	81	85
Duluth.....	22	9.8	10.7	1	1	27
El Paso.....	52	23.0	23.0	8	9	
Erie.....	29			3	3	64
Fall River.....	25	9.7	20.2	5	8	114
Flint.....	27	9.5	23.1	3	5	35
Fort Worth.....	38	11.6	24.8	3	8	
White.....	36			3	6	
Colored.....	2	(⁹)	(⁹)	0	2	
Grand Rapids.....	32	10.2	14.0	2	3	30
Houston.....	59			5	8	
White.....	39			2	6	
Colored.....	20	(⁹)	(⁹)	3	2	
Indianapolis.....	128	17.5	17.5	9	14	67
White.....	98			8	13	60
Colored.....	30	(⁹)	(⁹)	1	1	54
Jersey City.....	78	12.5	18.9	13	10	113
Kansas City, Kans.....	32	14.1	15.9	2	6	47
White.....	27			2	3	53
Colored.....	5	(⁹)	(⁹)	0	3	0
Kansas City, Mo.....	104	13.9	13.2	12	11	93
Knoxville.....	32	15.8	27.7	4	8	94
White.....	26			3	8	78
Colored.....	6	(⁹)	(⁹)	1	0	247
Los Angeles.....	313			38	26	116
Louisville.....	49	7.8	20.4	2	12	17
White.....	34			0	9	0
Colored.....	15	(⁹)	(⁹)	2	3	145
Lowell.....	20			2	3	47
Lynn.....	23	11.4	11.9	2	0	51
Memphis.....	73	20.0	38.4	3	13	36
White.....	42			3	7	55
Colored.....	31	(⁹)	(⁹)	0	6	0
Milwaukee.....	114	10.9	20.1	19	23	96
Minneapolis.....	112	12.8	20.4	6	14	39
Nashville.....	45	16.8	43.3	5	7	77
White.....	31			2	3	41
Colored.....	14	(⁹)	(⁹)	3	4	190
New Bedford.....	26			0	6	0
New Haven.....	44	12.2	13.3	4	2	78
New Orleans.....	173	21.0	32.3	22	15	127
White.....	108			8	5	71
Colored.....	65	(⁹)	(⁹)	14	10	235

See footnotes at end of table.

Deaths from all causes in certain large cities of the United States during the week ended January 11, 1930, infant mortality, annual death rate, and comparison with corresponding week of 1929.—Continued

City	Week ended Jan. 11, 1930		Annual death rate per 1,000, corresponding week, 1929	Deaths under 1 year		Infant mortality rate, week ended Jan. 11, 1930
	Total deaths	Death rate		Week ended Jan. 11, 1930	Corresponding week, 1929	
New York.....	1,575	13.6	18.5	141	194	59
Bronx Borough.....	208	11.4	15.2	16	32	38
Brooklyn Borough.....	537	12.1	16.9	56	63	60
Manhattan Borough.....	625	18.6	24.9	52	67	85
Queens Borough.....	158	9.6	13.7	17	30	49
Richmond Borough.....	47	16.3	16.3	0	2	0
Newark, N. J.....	127	14.0	21.6	10	21	32
Oakland.....	63	12.0	12.9	8	2	96
Oklahoma City.....	36			1	6	20
Omaha.....	61	14.3	12.9	2	7	23
Paterson.....	37	13.3	24.1	8	1	139
Philadelphia.....	468	11.8	20.8	41	66	61
Pittsburgh.....	200	15.5	29.9	21	33	77
Portland, Oreg.....	85			3	1	37
Providence.....	77	14.0	12.9	8	8	73
Richmond.....	56	15.0	29.8	10	1	148
White.....	29			4	0	90
Colored.....	27	(¹)	(¹)	6	1	262
Rochester.....	62	9.9	17.5	2	11	18
St. Louis.....	211	13.0	22.7	12	24	39
St. Paul.....	55			4	4	41
Salt Lake City ²	36	13.6	13.6	2	0	31
San Antonio.....	75	17.9	20.8	11	12	
San Diego.....	47			1	2	21
San Francisco.....	193	17.2	16.7	2	6	14
Schenectady.....	23	12.9	21.2	0	3	0
Seattle.....	62	8.4	15.6	3	4	30
Somerville.....	15	7.6	9.6	2	4	65
Spokane.....	26	12.4	25.8	1	8	26
Springfield, Mass.....	32	11.1	18.1	2	6	32
Syracuse.....	56	14.7	22.5	6	2	74
Tacoma.....	24	11.3	14.2	2	2	51
Toledo.....	82	13.7	21.0	5	8	46
Trenton.....	49	18.4	25.9	4	7	74
Utica.....	20	10.0	25.0	1	2	28
Washington, D. C.....	143	13.5	22.7	10	20	58
White.....	93			6	8	52
Colored.....	50	(¹)	(¹)	4	12	71
Waterbury.....	20			3	6	77
Wilmington, Del.....	34	13.8	14.2	4	5	90
Worcester.....	45	11.9	13.5	5	4	65
Yonkers.....	20	8.6	18.5	2	1	48
Youngstown.....	30	9.0	23.0	3	7	47

¹ Annual rate per 1,000 population.

² Deaths under 1 year per 1,000 births. Cities left blank are not in the registration area for births.

³ Data for 73 cities.

⁴ Deaths for week ended Friday.

⁵ In the cities for which deaths are shown by color, the colored population in 1920 constituted the following percentages of the total population: Atlanta, 31; Baltimore, 15; Birmingham, 39; Dallas, 15; Fort Worth, 14; Houston, 25; Indianapolis, 11; Kansas City, Kans., 14; Knoxville, 15; Louisville, 17; Memphis, 38; Nashville, 30; New Orleans, 26; Richmond, 32; and Washington, D. C., 25.

PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

UNITED STATES

CURRENT WEEKLY STATE REPORTS

These reports are preliminary, and the figures are subject to change when later returns are received by the State health officers

Reports for Weeks Ended January 11, 1930, and January 12, 1929

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended January 11, 1930, and January 12, 1929

Division and State	Diphtheria		Influenza		Measles		Meningococcus meningitis	
	Week ended Jan. 11, 1930	Week ended Jan. 12, 1929	Week ended Jan. 11, 1930	Week ended Jan. 12, 1929	Week ended Jan. 11, 1930	Week ended Jan. 12, 1929	Week ended Jan. 11, 1930	Week ended Jan. 12, 1929
New England States:								
Maine.....	4	1	8	722	216		0	0
New Hampshire.....	3		8	75	27	38	0	0
Vermont.....				373	22	9	0	0
Massachusetts.....	121	117	10	1,976	279	792	1	3
Rhode Island.....	16	6	6	208		72	0	0
Connecticut.....	24	30	12	2,079	62	390	1	2
Middle Atlantic States:								
New York.....	164	283	134	12,649	367	946	16	37
New Jersey.....	114	164	26	2,474	219	189	9	9
Pennsylvania.....	169	162			510	913	10	0
East North Central States:								
Ohio.....	74	64	34	4,778	494	655	9	15
Indiana.....	38	53		986	96	134	20	0
Illinois.....	181	161	20	1,240	367	339	14	7
Michigan.....	101	94	7	3,394	269	94	18	18
Wisconsin.....	20	20	102	3,830	566	191	0	10
West North Central States:								
Minnesota.....	34	17		282	186	121	4	3
Iowa.....	15	16		103	253		1	6
Missouri.....	41	72	46	3,123	34	112	8	7
North Dakota.....	8	4		546	17	10	3	3
South Dakota.....	1			264	41	31	3	4
Nebraska.....	12	17	10	383	313	13	4	0
Kansas.....	24	21	5	1,697	130	18	3	1
South Atlantic States:								
Delaware.....	10	3		155		41	0	0
Maryland.....	25	31	54	5,816	15	46	1	2
District of Columbia.....	8	8		567	1	2	0	0
West Virginia.....	13	21	15	13,711	103	141	3	3
North Carolina.....	83	56	33		15	23	1	0
South Carolina.....	31	20	1,133	6,421		5	6	0
Georgia.....	20	8	188	7,739	95	59	1	1
Florida.....	8	6	6	820	9	2	0	0
East South Central States:								
Kentucky.....	8	7		6,170	69		2	0
Tennessee.....	21	26	147	12,599	88	28	40	1
Alabama.....	25	34	204	19,967	24	69	2	0
Mississippi.....	20	9		5,030			7	2
West South Central States:								
Arkansas.....	9	8	120	5,289	2	12	5	12
Louisiana.....	39	20	35	6,163	49	33	6	4
Oklahoma.....	43	41	164	9,296	45	10	2	10
Texas.....	102	44	87	6,695	6	89	0	1

¹ New York City only.

² Week ended Friday.

³ Figures for 1930 are exclusive of Oklahoma City and Tulsa.

*Cases of certain communicable diseases reported by telegraph by State health officers
for weeks ended January 11, 1930, and January 12, 1929—Continued*

Division and State	Diphtheria		Influenza		Measles		Meningococcus meningitis	
	Week ended Jan. 11, 1930	Week ended Jan. 12, 1929	Week ended Jan. 11, 1930	Week ended Jan. 12, 1929	Week ended Jan. 11, 1930	Week ended Jan. 12, 1929	Week ended Jan. 11, 1930	Week ended Jan. 12, 1929
Mountain States:								
Montana.....	1	4		333	29	72	3	4
Idaho.....		1		9	21	5	1	0
Wyoming.....	1	4		311	3	3	1	2
Colorado.....	10	6	2	117	69	13	1	6
New Mexico.....	8	8		125	9		0	7
Arizona.....	16	10	30	10		1	25	7
Utah ¹	1	7	4	14	88		6	5
Pacific States:								
Washington.....	9	12	4	151	47	83	3	9
Oregon.....	10	21	46	741	15	49	0	1
California.....	60	61	76	976	442	26	11	19

Division and State	Polioomyelitis		Scarlet fever		Smallpox		Typhoid fever	
	Week ended Jan. 11, 1930	Week ended Jan. 12, 1929	Week ended Jan. 11, 1930	Week ended Jan. 12, 1929	Week ended Jan. 11, 1930	Week ended Jan. 12, 1929	Week ended Jan. 11, 1930	Week ended Jan. 12, 1929
New England States:								
Maine.....	0	2	45	22	0	1	1	0
New Hampshire.....	0	0	16	7	0	0	0	0
Vermont.....	0	0	12	13	1	1	0	0
Massachusetts.....	1	1	349	262	0	0	4	2
Rhode Island.....	0	0	35	19	0	0	0	0
Connecticut.....	0	0	129	50	0	0	0	0
Middle Atlantic States:								
New York.....	1	0	492	505	13	1	11	15
New Jersey.....	0	2	232	131	0	0	3	2
Pennsylvania.....	1	0	466	261	0	0	17	5
East North Central States:								
Ohio.....	0	0	279	251	159	17	6	4
Indiana.....	0	0	177	116	205	52	4	0
Illinois.....	0	2	567	299	158	100	10	4
Michigan.....	0	2	321	277	70	26	0	1
Wisconsin.....	1	0	138	123	43	36	2	3
West North Central States:								
Minnesota.....	0	0	101	114	10	2	2	0
Iowa.....	0	1	73	114	121	11	1	0
Missouri.....	0	0	41	84	37	44	5	1
North Dakota.....	0	0	49	24	34	5	0	1
South Dakota.....	0	0	16	33	30	28	0	2
Nebraska.....	1	0	60	60	140	26	0	1
Kansas.....	0	0	118	106	52	12	2	2
South Atlantic States:								
Delaware.....	0	0	22	2	0	0	0	1
Maryland ¹	2	0	102	62	0	1	5	3
District of Columbia.....	0	0	19	15	0	0	0	0
West Virginia.....	1	0	52	40	23	16	10	6
North Carolina.....	0	0	96	53	33	16	0	0
South Carolina.....	0	2	27	13	0	0	9	5
Georgia.....	0	0	14	25	0	0	6	3
Florida.....	0	0	14	10	0	0	1	2
East South Central States:								
Kentucky.....	0	0	69	0	23	17	0	2
Tennessee.....	1	0	45	29	6	0	7	3
Alabama.....	0	0	28	24	45	18	1	1
Mississippi.....	0	0	26	11	1	1	2	1
West South Central States:								
Arkansas.....	0	0	21	27	12	1	7	12
Louisiana.....	0	0	24	34	12	11	14	6
Oklahoma ¹	0	1	47	25	34	64	16	8
Texas.....	0	0	73	56	97	12	4	5
Mountain States:								
Montana.....	0	0	46	52	9	13	1	2
Idaho.....	0	0	9	4	11	28	0	1
Wyoming.....	0	0	1	32	12	5	0	0
Colorado.....	0	0	36	5	25	5	0	1
New Mexico.....	2	0	7	6	2	0	1	1
Arizona.....	0	0	13	2	34	8	2	0
Utah ¹	0	0	17	12	0	10	0	0
Pacific States:								
Washington.....	3	0	75	33	108	56	0	0
Oregon.....	0	1	39	23	15	56	3	0
California.....	3	2	299	264	77	37	7	1

¹ Week ended Friday.¹ Figures for 1930 are exclusive of Oklahoma City and Tulsa.

SUMMARY OF MONTHLY REPORTS FROM STATES

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week:

State	Menin- gococ- cus menin- gitis	Diph- theria	Influ- enza	Ma- laria	Mea- sles	Pellag- ra	Polio- mye- litis	Scarlet fever	Small- pox	Ty- phoid fever
<i>November, 1929</i>										
Kansas.....	14	166	11		225		1	381	164	20
South Carolina.....		464	3, 127	2, 483	28	390	7	160	4	88
<i>December, 1929</i>										
Arizona.....	26	51	69		8	1	0	36	28	11
Connecticut.....	17	100	25		45		2	321	0	8
District of Columbia.....		47	3		3		0	75	0	2
Indiana.....	56	123	129		92		3	521	653	8
Nebraska.....	9	88	15		568		3	219	195	1
North Dakota.....	12	22	7		132		1	145	53	2

<i>November, 1929</i>	
Chicken pox:	
Kansas.....	542
South Carolina.....	136
Dengue:	
South Carolina.....	0
Diarrhea:	
South Carolina.....	501
German measles:	
Kansas.....	7
Hookworm disease:	
South Carolina.....	131
Impetigo contagiosa:	
Kansas.....	4
Lethargic encephalitis:	
Kansas.....	1
South Carolina.....	4
Mumps:	
Kansas.....	100
South Carolina.....	44
Ophthalmia neonatorum:	
South Carolina.....	15
Paratyphoid fever:	
Kansas.....	1
South Carolina.....	7
Ptomaine poisoning:	
Kansas.....	1
Pyelitis:	
South Carolina.....	1
Rabies in animals:	
South Carolina.....	15
Scabies:	
Kansas.....	19
Septic sore throat:	
South Carolina.....	4
Tularaemia:	
Kansas.....	3
South Carolina.....	2
Typhus fever:	
South Carolina.....	3
Undulant fever:	
Kansas.....	6
South Carolina.....	2
Vincent's angina:	
Kansas.....	1
South Carolina.....	2

<i>November, 1929—Continued</i>	
Whooping cough:	
Kansas.....	109
South Carolina.....	463
<i>December, 1929</i>	
Chicken pox:	
Arizona.....	93
Connecticut.....	706
District of Columbia.....	95
Indiana.....	548
Nebraska.....	187
North Dakota.....	151
Conjunctivitis, infectious:	
Connecticut.....	4
Dysentery:	
Arizona.....	4
German measles:	
Connecticut.....	37
Lethargic encephalitis:	
District of Columbia.....	1
Mumps:	
Arizona.....	333
Connecticut.....	114
Indiana.....	21
Nebraska.....	68
North Dakota.....	53
Paratyphoid fever:	
Connecticut.....	2
Nebraska.....	1
Rabies in animals:	
Connecticut.....	4
Rabies in man:	
Arizona.....	1
Scabies:	
North Dakota.....	13
Septic sore throat:	
Connecticut.....	5
Nebraska.....	26
Trachoma:	
Arizona.....	53
Connecticut.....	1
Trichinosis:	
Connecticut.....	2

December, 1929—Continued

Tularaemia:	
Arizona.....	1
District of Columbia.....	7
Indiana.....	7
Undulant fever:	
Arizona.....	2
Nebraska.....	3
Vincent's angina:	
North Dakota.....	18

December, 1929—Continued

Whooping cough:	
Arizona.....	30
Connecticut.....	180
District of Columbia.....	19
Indiana.....	74
Nebraska.....	73
North Dakota.....	17

Number of Cases of Certain Communicable Diseases Reported for the Month of October, 1929, by State Health Officers

State	Chick- en pox	Diph- theria	Measles	Mumps	Scarlet fever	Small- pox	Tuber- culosis	Ty- phoid and paraty- phoid fever	Whoop- ing cough
Maine.....	133	10	77	66	125	0	34	13	62
New Hampshire.....		8			68	0		3	
Vermont.....	140	10	3	5	20	43	20	0	114
Massachusetts.....	501	436	294	222	631	0	486	37	462
Rhode Island.....	9	53	4	3	48	0	45	8	16
Connecticut.....	241	99	11	67	118	0	117	20	140
New York.....	924	553	547	526	576	72	1,930	167	1,094
New Jersey.....	449	470	64		287	0	465	39	447
Pennsylvania.....	1,682	820	987	464	987	10	670	226	1,311
Ohio.....	1,150	407	576	162	831	187	691	155	546
Indiana.....	124	133	36	15	240	86	134	32	55
Illinois.....	1,071	823	387	202	1,262	339	920	148	807
Michigan.....	776	463	454	181	702	159	766	49	350
Wisconsin.....	1,013	106	825	146	325	63	189	53	637
Minnesota.....	404	148	118		350	15	247	25	80
Iowa.....		53			221	100		16	
Missouri.....	109	242	74	14	282	48	197	58	163
North Dakota.....	90	29	27	19	62	30	21	11	16
South Dakota.....	42	21	7	17	47	145	4	22	22
Nebraska.....	118	130	92	38	89	32	17	6	95
Kansas.....	231	182	200	120	341	51	126	20	123
Delaware.....	52	11	3		16	0	19	4	24
Maryland.....	126	108	25	28	224	0	255	101	222
District of Columbia.....	25	52	8		36	0	81	6	5
Virginia.....	203	589	111		427	168	160	82	733
West Virginia.....	68	129	70		225	19	109	113	78
North Carolina.....	156	1,192	10		602	28		84	500
South Carolina.....	51	525	13	42	128	0	146	122	333
Georgia.....	12	143	10	19	189	0	70	87	90
Florida.....	5	65	7	32	33	1	27	10	18
Kentucky ¹									
Tennessee.....	24	280	34	6	288	11	239	137	68
Alabama.....	14	300	34	6	257	6	299	66	68
Mississippi.....	244	523	74	100	161	1	201	93	574
Arkansas.....	28	110	5	33	114	4	121	116	31
Louisiana.....	7	171	6		97	0	158	60	7
Oklahoma ²	16	306	95		160	48	45	130	30
Texas ²									
Montana.....	103	10	512	180	95	38	20	116	8
Idaho.....	63	11	142	109	46	25	16	1	23
Wyoming.....	13	3	1	2	13	4	12	6	6
Colorado.....	179	31	15	19	68	33	125	21	60
New Mexico ²									
Arizona.....	15	69	6	98	30	7	77	19	50
Utah ²									
Nevada.....							4		
Washington.....	488	91	132	230	175	119	149	60	113
Oregon.....	65	41	49	57	62	36	50	17	19
California.....	800	304	248	1,132	768	121	956	70	491

¹ Pulmonary.² Reports received weekly.³ Exclusive of Oklahoma City and Tulsa.

**Case Rates per 1,000 Population (Annual Basis) for the Month of
October, 1929**

State	Chick- en pox	Diph- theria	Measles	Mumps	Scarlet fever	Small- pox	Tuber- culosis	Ty- phoid and paraty- phoid fever	Whoop- ing cough
Maine.....	1.96	0.15	1.14	0.98	1.85	0	0.50	0.19	0.92
New Hampshire.....		.21			1.75	0		.08	
Vermont.....	4.68	.33	.10	.17	.67	1.44	.67	0	3.81
Massachusetts.....	1.36	1.18	.80	.60	1.71	0	1.32	.10	1.25
Rhode Island.....	.15	.86	.06	.05	.78	0	.73	.13	.26
Connecticut.....	1.67	.69	.08	.46	.82	0	.81	.14	.97
New York.....	.93	.56	.55	.53	.58	.07	1.95	.17	1.09
New Jersey.....	1.36	1.42	.19		.87	0	1.41	.12	1.35
Pennsylvania.....	1.98	.97	1.16	.55	1.16	.01	.79	.27	1.55
Ohio.....	1.05	.69	.98	.27	1.41	.32	1.17	.26	.93
Indiana.....	.46	.49	.13	.06	.88	.32	.49	.12	.20
Illinois.....	1.68	1.29	.61	.32	1.98	.53	1.45	.23	1.27
Michigan.....	1.95	1.16	1.14	.45	1.76	.40	1.92	.12	.88
Wisconsin.....	3.99	.42	3.25	.58	1.28	.25	.74	.21	2.51
Minnesota.....	1.72	.63	.50		1.49	.06	1.05	.11	.34
Iowa.....		.26			1.07	.48		.08	
Missouri.....	.56	.81	.25	.05	.94	.16	.66	.19	.54
North Dakota.....	1.65	.53	.50	.35	1.14	.55	.39	.20	.29
South Dakota.....	.69	.35	.12	.28	.78	2.40	.07	.36	.36
Nebraska.....	.98	1.08	.76	.32	.74	.27	.14	.05	.79
Kansas.....	1.48	1.16	1.28	.77	2.18	.33	.81	.13	.70
Delaware.....	2.50	.53	.14		.77	0	1.43	.19	1.15
Maryland.....	.91	.78	.18	.20	1.61	0	1.84	.73	1.60
District of Columbia.....	.52	1.09	.17		.75	0	1.69	.13	.10
Virginia.....	.92	2.66	.50		1.93	.76	.72	.37	3.31
West Virginia.....	.46	.87	.47		1.51	.13	.73	.76	.52
North Carolina.....	.62	4.71	.04		2.38	.11		.33	2.21
South Carolina.....	.32	3.28	.08	.26	.80	0	.91	.76	2.08
Georgia.....	.04	.52	.04	.07	.69	0	.25	.32	.33
Florida.....	.04	.52	.06	.26	.27	.01	.22	.08	.15
Kentucky ¹									
Tennessee.....	.11	1.31	.16	.03	1.35	.05	1.12	.64	.32
Alabama.....	.06	1.36	.15	.03	1.17	.03	1.86	.30	.31
Mississippi.....	1.60	3.44	.49	.66	1.06	.01	1.32	.61	3.77
Arkansas.....	.17	.66	.03	.20	.68	.02	1.13	.70	.19
Louisiana.....	.04	1.02	.04		.88	0	.95	.36	.04
Oklahoma ².....	.09	1.66	.51		.87	.26	.24	.70	.16
Texas ³									
Montana.....	2.21	.21	10.96	3.86	2.04	.82	.43	2.49	.17
Idaho.....	1.33	.23	3.00	2.30	.97	.53	.34	.02	.49
Wyoming.....	.60	.14	.05	.09	.60	.19	1.09	.28	.28
Colorado.....	1.91	.33	.16	.20	.72	.35	1.33	.22	.64
New Mexico ¹									
Arizona.....	.36	1.66	.14	2.36	.72	.17	1.85	.46	1.42
Utah ²									
Nevada.....							.61		
Washington.....	3.56	.66	.96	1.68	1.28	.87	1.69	.44	.83
Oregon.....	.84	.53	.63	.73	.80	.46	.64	.22	.24
California.....	2.01	.76	.62	2.85	1.93	.30	2.41	.18	1.24

¹ Pulmonary.² Reports received weekly.³ Exclusive of Oklahoma City and Tulsa.

GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

The 96 cities reporting cases used in the following table are situated in all parts of the country and have an estimated aggregate population of more than 31,910,000. The estimated population of the 89 cities reporting deaths is more than 30,320,000. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

Weeks ended January 4, 1930, and January 5, 1929

	1930	1929	Estimated expectancy
<i>Cases reported</i>			
Diphtheria:			
45 States.....	1,913	1,717	-----
96 cities.....	717	896	1,105
Measles:			
42 States.....	3,898	4,598	-----
96 cities.....	798	1,162	-----
Meningococcus meningitis:			
45 States.....	192	151	-----
96 cities.....	87	87	-----
Poliomyelitis:			
46 States.....	20	15	-----
Scarlet fever:			
45 States.....	3,928	3,485	-----
96 cities.....	1,529	1,176	1,378
Smallpox:			
45 States.....	1,266	623	-----
96 cities.....	122	21	50
Typhoid fever:			
45 States.....	133	114	-----
96 cities.....	15	22	105
<i>Deaths reported</i>			
Influenza and pneumonia:			
89 cities.....	1,067	3,533	-----
Smallpox:			
89 cities.....	0	0	-----

City reports for week ended January 4, 1930

The "estimated expectancy" given for diphtheria, poliomyelitis, scarlet fever, smallpox, and typhoid fever is the result of an attempt to ascertain from previous occurrence the number of cases of the disease under consideration that may be expected to occur during a certain week in the absence of epidemics. It is based on reports to the Public Health Service during the past nine years. It is in most instances the median number of cases reported in the corresponding weeks of the preceding years. When the reports include several epidemics, or when for other reasons the median is unsatisfactory, the epidemic periods are excluded and the estimated expectancy is the mean number of cases reported for the week during nonepidemic years.

If the reports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 1921 is included. In obtaining the estimated expectancy, the figures are smoothed when necessary to avoid abrupt deviation from the usual trend. For some of the diseases given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy.

Division, State, and city	Population, July 1, 1928, estimated	Chicken pox, cases reported	Diphtheria		Influenza		Measles, cases reported	Mumps, cases reported	Pneumonia, deaths reported
			Cases, estimated expectancy	Cases reported	Cases reported	Deaths reported			
NEW ENGLAND									
Maine:									
Portland.....	78,600	30	2	0	-----	0	0	8	1
New Hampshire:									
Concord.....	(1)	0	0	0	-----	0	2	0	0
Manchester.....	85,700	0	2	0	1	1	0	0	1
Vermont:									
Barre.....	(1)	0	0	0	-----	0	1	0	0
Massachusetts:									
Boston.....	799,200	81	41	36	3	1	30	53	33
Fall River.....	134,300	17	5	3	-----	0	1	0	4
Springfield.....	149,800	18	5	2	-----	1	0	4	5
Worcester.....	197,600	15	5	2	-----	0	19	0	3
Rhode Island:									
Pawtucket.....	73,100	19	1	3	-----	0	1	0	1
Providence.....	286,300	3	10	13	-----	1	1	0	7
Connecticut:									
Bridgeport.....	(1)	1	7	1	1	0	1	0	4
Hartford.....	172,300	6	8	1	2	0	0	1	7
New Haven.....	187,900	32	2	0	-----	0	0	3	6

¹ No estimate of population made.

City reports for week ended January 4, 1930—Continued

Division, State, and city	Population, July 1, 1928, estimated	Chicken pox, cases reported	Diphtheria		Influenza		Measles, cases reported	Mumps, cases reported	Pneumonia, deaths reported
			Cases, estimated expectancy	Cases reported	Cases reported	Deaths reported			
MIDDLE ATLANTIC									
New York:									
Buffalo.....	555,800	27	18	11	-----	0	4	3	19
New York.....	6,017,500	187	217	98	20	14	37	0	246
Rochester.....	328,200	18	10	1	-----	0	4	2	3
Syracuse.....	199,300	18	6	0	-----	0	0	28	7
New Jersey:									
Camden.....	135,400	0	7	3	-----	0	0	1	7
Newark.....	473,600	63	21	24	16	0	51	12	18
Trenton.....	139,000	5	4	1	-----	0	8	0	1
Pennsylvania:									
Philadelphia.....	2,064,200	102	82	29	8	6	23	24	58
Pittsburgh.....	673,800	46	23	12	3	0	33	3	14
Reading.....	115,400	22	4	1	-----	1	0	3	5
EAST NORTH CENTRAL									
Ohio:									
Cincinnati.....	413,700	20	14	9	-----	1	1	0	9
Cleveland.....	1,010,300	133	41	18	9	2	6	3	30
Columbus.....	299,000	12	7	0	4	3	4	3	4
Toledo.....	313,200	91	12	3	1	1	405	3	8
Indiana:									
Fort Wayne.....	105,300	7	5	5	-----	1	1	0	1
Indianapolis.....	382,100	48	11	5	-----	0	17	15	15
South Bend.....	86,100	-----	1	-----	-----	-----	-----	-----	-----
Terre Haute.....	73,500	5	2	0	-----	0	0	0	3
Illinois:									
Chicago.....	3,157,400	152	111	162	19	11	20	23	72
Springfield.....	67,200	14	2	1	1	1	1	0	1
Michigan:									
Detroit.....	1,378,900	69	65	40	-----	2	118	25	27
Flint.....	148,800	21	5	0	1	1	1	0	2
Grand Rapids.....	164,200	4	2	0	-----	0	1	1	1
Wisconsin:									
Kenosha.....	56,500	2	2	0	-----	0	1	0	1
Madison.....	50,500	4	0	1	-----	0	112	1	0
Milwaukee.....	544,200	131	22	5	1	1	2	16	11
Racine.....	74,400	-----	3	-----	-----	-----	-----	-----	-----
Superior.....	(1)	0	1	0	-----	0	12	2	1
WEST NORTH CENTRAL									
Minnesota:									
Duluth.....	116,800	2	2	0	-----	0	32	0	9
Minneapolis.....	455,900	194	22	8	-----	4	26	4	15
St. Paul.....	(1)	10	13	0	-----	3	8	4	9
Iowa:									
Davenport.....	(1)	3	0	0	-----	-----	0	1	-----
Des Moines.....	151,900	1	4	0	-----	-----	15	1	-----
Sioux City.....	80,000	8	3	1	-----	-----	0	0	-----
Waterloo.....	37,100	10	0	2	-----	-----	65	0	-----
Missouri:									
Kansas City.....	391,000	26	8	2	-----	0	2	0	17
St. Joseph.....	78,500	3	2	0	-----	0	0	0	5
St. Louis.....	848,100	11	48	35	-----	-----	1	19	-----
North Dakota:									
Fargo.....	(1)	3	0	0	-----	0	0	1	2
Grand Forks.....	(1)	0	0	0	-----	-----	0	0	-----
South Dakota:									
Aberdeen.....	(1)	4	0	0	-----	-----	0	0	-----
Sioux Falls.....	(1)	0	1	0	-----	-----	4	0	-----
Nebraska:									
Omaha.....	222,800	14	5	11	-----	0	9	0	6
Kansas:									
Topeka.....	62,800	48	2	1	1	2	3	8	1
Wichita.....	99,300	14	4	0	0	0	0	0	2

1 No estimate of population made.

City reports for week ended January 4, 1930—Continued

Division, State, and city	Population, July 1, 1928, estimated	Chick- en pox, cases re-ported	Diphtheria		Influenza		Meas-les, cases re-ported	Mumps, cases re-ported	Pneu-monia, deaths re-ported
			Cases, esti-mated expec-tancy	Cases re-ported	Cases re-ported	Deaths re-ported			
SOUTH ATLANTIC									
Delaware:									
Wilmington	128,500	3	2	3		0	0	0	3
Maryland:									
Baltimore	830,400	69	33	13	26	3	3	3	44
Cumberland	(1)	0	1	0	1	1	0	0	1
Frederick	(1)	0	0	1		0	0	0	0
District of Columbia:									
Washington	552,000	15	20	11	2	2	3	0	18
Virginia:									
Lynchburg	38,600	13	2	1		0	61	14	3
Norfolk	184,200	0	2	1		0	1	8	2
Richmond	194,400	0	7	1		2	0	1	8
Roanoke	64,600	0	2	3		0	1	2	1
West Virginia:									
Charleston	55,200	6	1	1	1	0	2	0	1
Wheeling	(1)	1	2	1		0	1	0	5
North Carolina:									
Raleigh	(1)	14	1	0		0	0	0	1
Wilmington	39,100	0	1	3		0	1	0	1
Winston-Salem	80,000	12	1	3	6	0	0	6	5
South Carolina:									
Charleston	75,900	2	1	0	57	0	0	1	4
Columbia	50,600	7	0	0		0	0	0	2
Georgia:									
Atlanta	255,100	5	5	3	38	2	0	10	15
Brunswick	(1)	0	0	0		0	0	0	1
Savannah	99,900	7	1	3	7	0	0	0	6
Florida:									
Miami	156,700	1	4	2		0	2	2	3
St. Petersburg	53,300		0			0			0
Tampa	113,400	1	2	0		0	0	1	2
EAST SOUTH CENTRAL									
Kentucky:									
Covington	59,000	0	1	4		0	0	0	1
Tennessee:									
Memphis	190,200	5	6	0		2	0	2	9
Nashville	139,600	1	1	1		0	0	0	9
Alabama:									
Birmingham	222,400	5	4	10	9	2	1	0	12
Mobile	69,600	0	1	2	4	0	0	0	4
Montgomery	63,100	7	1	0	3		0	0	
WEST SOUTH CENTRAL									
Arkansas:									
Fort Smith	(1)	0	1	1			0	0	
Little Rock	75,200	0	0	3		1	0	0	2
Louisiana:									
New Orleans	429,400	0	13	11	9	7	19	0	27
Shreveport	81,300	2	2	2		0	1	3	9
Oklahoma:									
Oklahoma City	(1)	7	2	3	1	1	0	0	3
Tulsa	170,500	19	3	0			12	0	
Texas:									
Dallas	217,800	6	10	21	1	3	5	0	14
Fort Worth	170,600	9	4	7		0	1	1	2
Galveston	50,600	0	2	0		0	0	0	5
Houston	(1)	1	7	9		1	0	1	16
San Antonio	218,100	0	3	5		8	1	0	10
MOUNTAIN									
Montana:									
Billings	(1)	0	1	1		0	0	7	0
Great Falls	(1)	3	0	0		0	0	28	0
Helena	(1)	0	0	1		0	1	40	1
Missoula	(1)	1	1	0		0	0	0	1
Idaho:									
Boise	(1)	6	0	0		0	2	0	0
Colorado:									
Denver	294,200	49	10	3		2	8	8	15
Pueblo	44,200	6	2	0		0	0	13	1

1 No estimate of population made.

City reports for week ended January 4, 1930—Continued

Division, State, and city	Population, July 1, 1928, estimated	Chicken pox, cases reported	Diphtheria		Influenza		Measles, cases reported	Mumps, cases reported	Pneumonia, deaths reported
			Cases, estimated expectancy	Cases reported	Cases reported	Deaths reported			
MOUNTAIN—continued									
New Mexico:									
Albuquerque.....	(1)	0	1	1	-----	0	0	0	1
Arizona:									
Phoenix.....	(1)	2	0	1	-----	1	1	3	3
Utah:									
Salt Lake City.....	138, 000	36	4	1	-----	0	11	9	3
Nevada:									
Reno.....	(1)	0	0	0	-----	0	1	1	0
PACIFIC									
Washington:									
Seattle.....	383, 200	54	5	2	-----	-----	1	32	-----
Spokane.....	109, 100	21	2	3	-----	-----	0	0	-----
Tacoma.....	110, 500	0	3	1	-----	0	1	0	0
Oregon:									
Portland.....	(1)	27	12	9	5	0	4	11	7
Salem.....	(1)	3	0	1	-----	0	1	5	0
California:									
Los Angeles.....	(1)	45	43	33	30	1	8	16	28
Sacramento.....	75, 700	6	3	3	2	1	2	24	7
San Francisco.....	585, 300	24	19	7	5	2	117	18	-----

Division, State, and city	Scarlet fever		Smallpox			Tuber- culosis, deaths re- ported	Typhoid fever			Whoop- ing cough, cases re- ported	Deaths, all causes
	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported		Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported		
NEW ENGLAND											
Maine:											
Portland.....	2	6	0	0	0	0	1	0	0	0	23
New Hampshire:											
Concord.....	1	0	0	0	0	0	0	0	0	0	6
Manchester.....	2	0	0	0	0	0	0	0	0	0	12
Vermont:											
Barre.....	1	0	0	0	0	1	0	0	0	1	4
Massachusetts:											
Boston.....	75	85	0	0	0	10	1	1	0	57	252
Fall River.....	3	1	0	0	0	1	0	0	0	10	28
Springfield.....	10	12	0	0	0	3	0	0	0	9	49
Worcester.....	13	10	0	0	0	4	0	0	0	9	65
Rhode Island:											
Pawtucket.....	1	4	0	0	0	1	0	0	0	0	21
Providence.....	9	16	0	0	0	2	0	0	0	7	83
Connecticut:											
Bridgeport.....	10	15	0	0	0	0	0	0	0	1	42
Hartford.....	7	16	0	0	0	3	0	0	0	1	62
New Haven.....	7	10	0	0	0	0	0	0	0	4	45
MIDDLE ATLANTIC											
New York:											
Buffalo.....	25	38	0	0	0	11	1	0	0	13	178
New York.....	233	161	0	0	0	94	9	0	0	52	1,640
Rochester.....	13	3	0	0	0	3	0	0	0	4	83
Syracuse.....	13	20	0	0	0	1	0	0	0	34	51
New Jersey:											
Camden.....	7	2	0	0	0	2	0	0	0	1	31
Newark.....	27	19	0	0	0	11	0	1	0	23	137
Trenton.....	4	12	0	0	0	3	0	0	0	2	32
Pennsylvania:											
Philadelphia.....	95	100	0	0	0	28	3	1	1	23	537
Pittsburgh.....	39	33	0	0	0	6	1	0	0	16	106
Reading.....	4	2	0	0	0	1	0	0	0	17	31

¹ No estimate of population made.

City reports for week ended January 4, 1930—Continued

Division, State, and city	Scarlet fever		Smallpox			Tuber- culosis, deaths re-reported	Typhoid fever			Whoop- ing cough, cases re-reported	Deaths, all causes
	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported		Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported		
EAST NORTH CENTRAL											
Ohio:											
Cincinnati.....	19	27	0	1	0	15	1	1	1	5	166
Cleveland.....	43	36	1	0	0	18	1	0	0	43	224
Columbus.....	11	7	0	4	0	5	0	0	0	2	89
Toledo.....	15	8	1	6	0	3	0	0	0	0	60
Indiana:											
Fort Wayne.....	5	3	1	11	0	1	0	0	0	0	-----
Indianapolis.....	11	7	8	4	0	5	0	0	0	0	110
South Bend.....	3	-----	0	-----	-----	-----	0	-----	-----	-----	-----
Terre Haute.....	3	2	1	0	0	3	0	0	0	0	34
Illinois:											
Chicago.....	129	269	0	0	0	52	3	2	1	83	710
Springfield.....	3	0	0	1	0	0	0	0	0	2	26
Michigan:											
Detroit.....	101	141	2	1	0	14	1	0	0	66	288
Flint.....	13	9	1	3	0	0	0	0	0	4	24
Grand Rapids.....	13	11	1	0	0	2	1	0	0	6	41
Wisconsin:											
Kenosha.....	2	5	0	0	0	0	0	0	0	3	4
Madison.....	3	2	0	0	0	0	0	0	0	18	8
Milwaukee.....	35	17	0	0	0	6	0	0	0	23	134
Racine.....	6	-----	0	-----	-----	-----	0	-----	-----	-----	-----
Superior.....	3	7	0	0	0	1	0	0	0	1	13
WEST NORTH CENTRAL											
Minnesota:											
Duluth.....	11	5	0	1	0	2	0	0	0	6	25
Minneapolis.....	37	14	3	0	0	5	0	0	0	0	122
St. Paul.....	31	9	1	0	0	6	0	0	0	8	78
Iowa:											
Davenport.....	2	0	1	6	-----	-----	0	0	-----	0	-----
Des Moines.....	10	8	2	12	-----	-----	0	0	-----	0	27
Sioux City.....	1	0	1	2	-----	-----	0	0	-----	0	-----
Waterloo.....	2	0	0	32	-----	-----	0	0	-----	3	-----
Missouri:											
Kansas City.....	15	36	1	0	0	4	0	0	0	4	94
St. Joseph.....	3	1	0	1	0	0	0	0	0	0	31
St. Louis.....	41	43	1	1	0	13	1	0	0	3	294
North Dakota:											
Fargo.....	2	2	0	3	0	1	0	0	0	0	7
Grand Forks.....	1	0	0	0	-----	-----	0	0	-----	0	-----
South Dakota:											
Aberdeen.....	0	0	0	0	-----	-----	0	0	-----	1	-----
Sioux Falls.....	2	0	0	16	-----	-----	0	0	-----	0	7
Nebraska:											
Omaha.....	5	8	2	2	0	4	0	0	0	1	64
Kansas:											
Topeka.....	3	4	0	0	0	1	0	0	0	0	24
Wichita.....	5	9	0	0	0	2	0	0	0	0	15
SOUTH ATLANTIC											
Delaware:											
Wilmington.....	6	3	0	0	0	0	0	0	0	1	22
Maryland:											
Baltimore.....	32	28	0	0	0	18	2	2	0	17	242
Cumberland.....	1	0	0	0	0	0	0	0	0	0	10
Frederick.....	0	3	0	0	0	0	0	0	0	0	0
District of Colum- bia:											
Washington.....	24	16	0	0	0	8	1	0	0	7	162
Virginia:											
Lynchburg.....	1	0	0	0	0	2	0	0	0	18	22
Norfolk.....	2	9	0	0	0	1	0	0	0	0	-----
Richmond.....	6	13	0	0	0	0	1	0	0	2	62
Roanoke.....	3	2	0	0	0	1	0	0	0	0	21
West Virginia:											
Charleston.....	1	0	0	0	0	0	0	0	0	3	18
Wheeling.....	2	0	0	0	0	2	0	0	0	5	24
North Carolina:											
Raleigh.....	1	4	0	0	0	1	0	0	0	2	9
Wilmington.....	0	3	0	0	0	0	0	0	0	0	9
Winston-Salem.....	3	4	1	0	0	1	0	0	0	3	20

City reports for week ended January 4, 1930—Continued

Division, State, and city	Scarlet fever		Smallpox			Tuber- culosis, deaths re- ported	Typhoid fever			Whoop- ing cough, cases re- ported	Deaths all causes
	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported		Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported		
SOUTH ATLANTIC— continued											
South Carolina:											
Charleston.....	0	0	0	0	0	0	1	0	0	0	36
Columbia.....	1	1	0	1	0	2	0	0	0	13	15
Georgia:											
Atlanta.....	4	11	1	0	0	5	0	0	0	0	94
Brunswick.....	0	0	0	0	0	0	0	0	0	0	4
Savannah.....	1	7	0	0	0	1	1	1	0	0	40
Florida:											
Miami.....	1	5	0	0	0	1	1	0	0	1	25
St. Petersburg.....	0	0	0	0	0	0	0	0	0	0	8
Tampa.....	1	6	0	0	0	3	0	0	0	1	25
EAST SOUTH CEN- TRAL											
Kentucky:											
Covington.....	2	0	0	0	0	1	0	0	0	2	29
Tennessee:											
Memphis.....	6	8	1	0	0	7	1	0	0	1	79
Nashville.....	3	1	0	0	0	7	1	0	0	0	63
Alabama:											
Birmingham.....	5	7	2	0	0	4	1	1	0	1	87
Mobile.....	0	0	0	0	0	0	0	0	0	0	24
Montgomery.....	0	3	0	0	0	0	0	0	0	0	0
WEST SOUTH CEN- TRAL											
Arkansas:											
Fort Smith.....	1	1	0	0	0	0	0	0	0	0	0
Little Rock.....	2	2	0	0	0	0	0	0	0	0	0
Louisiana:											
New Orleans.....	6	7	0	0	0	10	3	0	0	0	191
Shreveport.....	2	2	0	0	0	1	0	0	0	0	34
Oklahoma:											
Oklahoma City.....	3	11	1	1	0	1	0	0	0	0	24
Tulsa.....	2	6	0	1	0	0	0	0	0	7	0
Texas:											
Dallas.....	6	7	0	0	0	4	0	0	0	0	73
Fort Worth.....	2	8	1	0	0	2	0	0	0	0	38
Galveston.....	0	0	0	0	0	0	0	0	0	0	15
Houston.....	3	4	1	3	0	12	0	0	0	0	96
San Antonio.....	2	0	0	1	0	7	0	0	0	0	97
MOUNTAIN											
Montana:											
Billings.....	2	4	0	0	0	0	0	0	0	0	2
Great Falls.....	2	12	1	0	0	0	0	0	0	0	7
Helena.....	1	0	0	0	0	0	0	0	0	0	7
Missoula.....	0	0	0	5	0	0	0	0	0	0	10
Idaho:											
Boise.....	0	1	0	0	0	0	0	0	0	0	11
Colorado:											
Denver.....	11	19	1	0	0	2	0	0	0	9	70
Pueblo.....	2	0	0	0	0	0	0	0	0	0	7
New Mexico:											
Albuquerque.....	1	1	0	0	0	6	0	0	0	0	13
Arizona:											
Phoenix.....	0	2	0	2	0	4	0	0	0	0	22
Utah:											
Salt Lake City.....	4	8	3	1	0	1	0	1	0	19	31
Nevada:											
Reno.....	0	0	0	0	0	0	0	0	0	0	4
PACIFIC											
Washington:											
Seattle.....	9	12	2	3	0	1	0	0	0	11	0
Spokane.....	8	0	4	29	0	0	0	0	0	8	0
Tacoma.....	3	7	3	7	0	1	0	0	0	0	21
Oregon:											
Portland.....	7	3	11	3	0	0	1	0	0	3	77
Salem.....	0	1	0	0	0	0	0	0	0	0	0
California:											
Los Angeles.....	29	61	4	0	0	25	1	0	0	18	311
Sacramento.....	2	6	1	3	0	1	0	1	1	0	29
San Francisco.....	16	25	1	2	0	8	0	3	0	0	162

City reports for week ended January 4, 1930—Continued

Division, State, and city	Meningococcus meningitis		Lethargic encephalitis		Pellagra		Poliomyelitis (infantile paralysis)		
	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases, estimated expectancy	Cases	Deaths
NEW ENGLAND									
Massachusetts:									
Worcester.....	1	0	0	0	0	0	0	0	0
MIDDLE ATLANTIC									
New York:									
New York City.....	14	7	1	0	0	1	1	0	0
New Jersey:									
Newark.....	1	0	1	0	0	0	0	1	0
Pennsylvania:									
Philadelphia.....	4	1	0	0	0	0	0	0	0
Pittsburgh.....	2	2	0	0	0	0	0	0	0
EAST NORTH CENTRAL									
Ohio:									
Cincinnati.....	1	1		0	0	0	0	1	0
Cleveland.....	4	1	0	0	0	0	0	0	0
Indiana:									
Indianapolis.....	14	11	0	0	0	0	0	0	0
Illinois:									
Chicago.....	6	2	0	0	0	0	0	1	1
Michigan:									
Detroit.....	11	7	0	0	0	0	0	0	0
WEST NORTH CENTRAL									
Minnesota:									
Minneapolis.....	1	0	0	0	0	0	0	0	0
Missouri:									
Kansas City.....	1	0	0	0	0	0	0	0	0
St. Louis.....	4	2	0	0	0	0	0	0	0
SOUTH ATLANTIC¹									
Delaware:									
Wilmington.....	1	0	0	0	0	0	0	1	0
Virginia:									
Richmond.....	0	0	0	0	0	0	0	0	1
North Carolina:									
Winston-Salem.....	0	0	0	0	1	1	0	0	0
Georgia:									
Atlanta.....	2	2	0	0	1	0	0	0	0
EAST SOUTH CENTRAL									
Kentucky:									
Covington.....	0	1	0	0	0	0	0	0	0
Tennessee:									
Memphis.....	5	4	0	0	0	1	0	0	0
Nashville.....	1	1	0	0	0	0	0	0	0
WEST SOUTH CENTRAL									
Louisiana:									
New Orleans.....	3	3	0	0	0	0	0	0	0
Shreveport.....	0	2	0	0	0	1	0	0	0
Oklahoma:									
Oklahoma City.....	2	0	0	1	0	0	0	0	0
Tulsa.....	1	0	0	0	0	0	0	0	0
Texas:									
Dallas.....	0	0	0	0	1	1	0	0	0
Fort Worth.....	0	0	0	0	0	2	0	0	0
Galveston.....	0	0	0	0	0	1	0	0	0
Houston.....	0	0	0	0	0	1	0	0	0
MOUNTAIN									
Utah:									
Salt Lake City.....	2	2	0	0	0	0	0	0	0
PACIFIC									
Washington:									
Seattle.....	1	0	0	0	0	0	0	0	0
Spokane.....	2	0	0	0	0	0	0	0	0
California:									
Los Angeles.....	5	2	0	1	0	0	0	0	1
San Francisco.....	1	1	1	1	0	0	0	0	0

¹ Typhus fever, 2 cases; 1 case at New York City, N. Y., and 1 case at Tampa, Fla.

The following table gives the rates per 100,000 population for 98 cities for the 5-week period ended January 4, 1930, compared with those for a like period ended January 5, 1929. The population figures used in computing the rates are approximate estimates, authoritative figures for many of the cities not being available. The 98 cities reporting cases have an estimated aggregate population of more than 32,000,000. The 91 cities reporting deaths have nearly 30,500,000 estimated population.

*Summary of weekly reports from cities, December 1, 1929, to January 4, 1930—
Annual rates per 100,000 population, compared with rates for the corresponding period of 1928-29¹*

DIPHTHERIA CASE RATES

	Week ended—									
	Dec. 7, 1929	Dec. 8, 1928	Dec. 14, 1929	Dec. 15, 1928	Dec. 21, 1929	Dec. 22, 1928	Dec. 28, 1929	Dec. 29, 1928	Jan. 4, 1930	Jan. 5, 1929
98 cities.....	147	166	134	150	129	146	² 120	133	³ 117	148
New England.....	113	209	118	216	170	150	² 125	170	136	163
Middle Atlantic.....	110	159	112	139	106	146	113	156	86	178
East North Central.....	191	190	170	208	167	166	166	133	³ 150	153
West North Central.....	121	149	148	149	110	139	67	119	114	161
South Atlantic.....	127	143	107	130	107	122	79	105	86	111
East South Central.....	224	140	136	98	122	133	100	105	112	88
West South Central.....	376	259	304	251	233	191	178	174	201	111
Mountain.....	157	35	61	18	61	71	35	18	52	70
Pacific.....	87	100	60	61	87	95	85	43	120	60

MEASLES CASE RATES

98 cities.....	98	148	113	183	110	179	² 92	161	³ 130	196
New England.....	81	736	86	837	93	800	² 98	676	125	964
Middle Atlantic.....	54	46	47	91	59	68	51	77	76	80
East North Central.....	93	187	133	194	94	251	97	206	³ 118	230
West North Central.....	215	194	202	272	210	225	146	301	277	198
South Atlantic.....	4	55	28	88	39	52	30	73	132	114
East South Central.....	14	14	14	0	0	28	0	0	7	14
West South Central.....	47	41	63	12	138	12	91	4	301	24
Mountain.....	165	186	104	257	139	204	78	106	197	383
Pacific.....	389	43	470	64	431	49	337	84	315	40

SCARLET FEVER CASE RATES

98 cities.....	253	201	276	203	250	184	² 217	183	³ 250	195
New England.....	278	237	378	251	312	241	² 314	308	377	296
Middle Atlantic.....	148	142	172	143	176	145	164	138	186	148
East North Central.....	409	259	438	290	354	233	311	220	³ 344	239
West North Central.....	231	264	271	252	235	241	179	262	248	258
South Atlantic.....	159	176	193	163	253	166	144	132	186	154
East South Central.....	143	259	88	168	48	154	75	182	125	197
West South Central.....	162	219	142	174	103	101	126	162	89	142
Mountain.....	392	80	322	62	583	27	322	27	378	113
Pacific.....	367	197	352	182	252	197	254	151	271	185

SMALLPOX CASE RATES

98 cities.....	19	4	23	8	23	8	18	4	20	3
New England.....	0	2	2	0	0	2	0	2	0	0
Middle Atlantic.....	0	0	0	0	0	0	0	0	0	1
East North Central.....	26	10	29	16	31	4	20	3	16	6
West North Central.....	63	2	56	0	60	6	58	10	80	2
South Atlantic.....	0	0	0	2	0	0	2	2	2	0
East South Central.....	0	28	0	7	7	0	7	7	0	7
West South Central.....	20	4	36	24	36	41	28	12	15	4
Mountain.....	78	0	78	44	52	44	44	35	52	35
Pacific.....	62	8	122	20	117	56	80	15	107	5

¹ The figures given in this table are rates per 100,000 population, annual basis, and not the number of cases reported. Populations used are estimated as of July 1, 1930, 1929, and 1928, respectively.

² Hartford, Conn., not included.

³ South Bend, Ind., and Racine, Wis., not included.

Summary of weekly reports from cities, December 1, 1929, to January 4, 1930—
Annual rates per 100,000 population, compared with rates for the corresponding
period of 1928-29¹

TYPHOID FEVER CASE RATES

	Week ended—									
	Dec. 7, 1929	Dec. 8, 1929	Dec. 14, 1929	Dec. 15, 1928	Dec. 21, 1929	Dec. 22, 1928	Dec. 28, 1929	Dec. 29, 1928	Jan. 4, 1930	Jan. 5, 1929
98 cities.....	5	8	6	5	5	4	4	5	2	4
New England.....	2	5	7	7	0	2	10	2	2	5
Middle Atlantic.....	4	7	6	4	4	4	3	4	1	2
East North Central.....	4	7	3	1	3	1	1	5	2	3
West North Central.....	2	4	6	4	8	2	2	6	0	0
South Atlantic.....	6	8	7	6	4	8	9	6	6	9
East South Central.....	48	14	14	21	0	7	34	7	7	0
West South Central.....	0	49	8	16	40	8	8	8	0	4
Mountain.....	26	0	9	9	17	9	0	9	9	9
Pacific.....	10	5	7	8	2	10	10	8	10	7

INFLUENZA DEATH RATES

91 cities.....	17	50	16	80	19	118	19	180	17	234
New England.....	11	9	7	9	9	14	10	14	7	48
Middle Atlantic.....	14	17	9	27	18	66	13	129	10	165
East North Central.....	9	18	15	44	14	124	13	201	15	238
West North Central.....	27	64	12	174	15	220	15	254	27	240
South Atlantic.....	28	54	19	101	13	134	26	281	18	343
East South Central.....	59	84	59	100	52	77	30	263	29	970
West South Central.....	49	54	81	96	69	212	97	379	79	596
Mountain.....	17	514	0	735	26	504	26	266	17	218
Pacific.....	13	293	20	317	30	212	20	182	13	134

PNEUMONIA DEATH RATES

91 cities.....	137	161	151	202	150	250	144	315	170	383
New England.....	75	80	136	108	188	159	96	159	163	201
Middle Atlantic.....	129	149	156	190	165	247	155	294	181	395
East North Central.....	126	135	115	171	117	255	116	382	113	466
West North Central.....	126	190	174	318	180	444	174	364	195	216
South Atlantic.....	131	170	191	251	184	228	152	344	221	360
East South Central.....	237	308	215	199	215	267	193	261	251	833
West South Central.....	248	179	239	182	243	254	243	408	329	670
Mountain.....	165	337	192	629	235	399	209	263	180	174
Pacific.....	144	293	111	222	144	160	108	169	118	145

¹ Hartford, Conn., not included.

² South Bend, Ind., and Racine, Wis., not included.

FOREIGN AND INSULAR

CANADA

Provinces—Communicable diseases—Week ended December 28, 1929.—The Department of Pensions and National Health reports cases of certain communicable diseases in Canada for the week ended December 28, 1929, as follows:

Province	Cerebro-spinal fever	Influenza	Lethargic encephalitis	Poliomyelitis	Smallpox	Typhoid fever
Prince Edward Island ¹						
Nova Scotia ¹						
New Brunswick ¹						
Quebec						4
Ontario	1	2	1	3	28	7
Manitoba					3	
Saskatchewan					10	1
Alberta	2				2	
British Columbia	3				2	1
Total	6	2	1	3	45	13

¹ No case of any disease included in the table was reported during the week.

Quebec Province—Communicable diseases—Week ended January 4, 1930.—The Bureau of Health of the Province of Quebec, Canada, reports cases of certain communicable diseases for the week ended January 4, 1930, as follows:

Disease	Cases	Disease	Cases
Cerebrospinal meningitis	1	Mumps	15
Chicken pox	28	Scarlet fever	25
Diphtheria	30	Smallpox	2
German measles	1	Tuberculosis	11
Influenza	1	Typhoid fever	2
Measles	84	Whooping cough	23

CUBA

Provinces—Communicable diseases—Four weeks ended December 21, 1929.—During the four weeks ended December 21, 1929, cases of certain communicable diseases were reported in the Provinces of Cuba as follows:

Disease	Pinar del Rio	Habana	Matanzas	Santa Clara	Camaguey	Oriente	Total
Cancer	2	8		3			13
Chicken pox	1	12		1			14
Diphtheria	1	6		3	4		14
Malaria	6	24		4	17	20	60
Measles		12		23			35
Paratyphoid fever				8		4	12
Scarlet fever		13		5			18
Typhoid fever	13	54	2	26	4	19	118

NETHERLANDS

Smallpox (alastrim)—Week ended December 21, 1929.—During the week ended December 21, 1929, 1 case of smallpox (alastrim) was reported at Bodegraven, Netherlands.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER

From medical officers of the Public Health Service, American consuls, International Office of Public Hygiene, Pan American Sanitary Bureau, health section of the League of Nations, and other sources. The reports contained in the following tables must not be considered as complete or final as regards either the list of countries included or the figures for the particular countries for which reports are given.

CHOLERA

(C indicates cases; D, deaths; P, present)

Place	June 2-29, 1929	June 30-July 29, 1929	July 30-Aug. 24, 1929	Aug. 25-Sept. 21, 1929	Sept. 22-Oct. 19, 1929	Week ended—									
						November, 1929					December, 1929				
						Oct. 20, 1929	2	9	16	23	30	7	14	21	28
Ceylon: Colombo.....	1	1													
China:															
Amoy.....	4	7	1	1											
Canton.....	10	6	5	1						1	1				
Hankow.....	5	5	3	1											
Manchuria.....								1							
Kwantung-Dairen.....			1												
Newchwang.....				P											
Nanking.....				P			P	P							
Shanghai.....		2	1,305	964	35										
Swatow.....		3	98	60	11										
Tientsin.....	P	7	12	37	22			3	3	1	1				
Chosen: Chemulpo.....				P	P										
India:															
Bombay.....	26,440	32,081	41,090	26,806	16,354		3,973								
Bassett.....	19,910	19,843	24,005	16,067	10,061		2,971								
Calcutta.....	3	6	2	1											
Karachi.....	354	275	170	135	190		71	52	74	55	55		65	40	
Madras.....	176	157	108	69	70		41	11	43	29	45	29	40	28	
Moulmein.....															
Negapatam.....															
Rangoon.....															
Tuticorin.....	34	6	1	1	1										
							2	2	1		7	9	7		32

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

CHOLERA—Continued

[C indicates cases; D, deaths; P, present]

Place	May, 1929	June, 1929	July, 1929	August, 1929	Septem- ber, 1929	October, 1929			November, 1929			December, 1929	
						1-10	11-20	21-31	1-10	11-20	21-30	1-10	11-20
Indo-China (French) (see also table above):													
Annam.....	20		9	17	1					2			
Cambodia.....	215	186	35	38						43			41
Cochin-China.....	123	315	60	45			121	100		15			46
Laos.....		13	3					3					
Tonkin.....	5	4											

PLAGUE

[C indicates cases; D, deaths; P, present]

Place	June 30- July 27, 1929	July 28- Aug. 24, 1929	Aug. 25- Sept. 21, 1929	Sept. 22- Oct. 19, 1929	Week ended—									
					Oct. 20- 26, 1929	November, 1929				December, 1929				Jan. 4, 1930
						2	9	16	23	30	7	14	21	28
Algeria:														
Algiers.....			2											
Philippeville.....	3	3												
Argentina:														
Rosario.....						1	1							
Plague-infected rats.....						1	1							
Santa Fe.....														
Tucuman.....							1							
Azores: St. Michaels Island.....	1													
Belgian Congo:														
Buki.....	2													
Djugu.....	3	1	2											
Rekwa.....	5	1	2							2				
British East Africa (see also table below):														
Uganda.....	1,437	840	528	405	110	93	71	62	72					
Canary Islands: Tenerife.....	1,199	730	556	343	101	84	60	59	65					

[illegible]

* Reports incomplete.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

PLAGUE—Continued

[C indicates cases; D, deaths; P, present]

[illegible]

Morocco.....	39	4	1		P	1	2		4	2		3	5	
Nigeria: Lagos.....	17	9	17	37	14	15	13	16	5	2	3			
Plague-infected rats.....	1	8	17	35	13	11	12	13	5	2	3			
Peru (see table below).....	13	16	51	89	9	12	6	6	7					
Senegal (see table below).....														
Siam.....														
Bangkok.....	4	3	7	3	1						1			
Straits Settlements: Singapore.....	3	3	5	3	1						1			
Syria: Beirut.....	4	3	1											
Tunisia:	1	1	1											
Slax district.....														
Tunis.....	P		10	25	5	3	10	26		11	5	4	9	1
Plague-infected rats.....			1											21
Turkey:			4											
Adalia.....	2	1												
Constantinople.....														
Union of Socialist Soviet Republics:														
Caucasia.....	7	2												
Kazaks.....	3	1												
Ural-Kirghiz.....				1										
Union of South Africa:														
Cape Province.....	3			17	2	11			4					
Orange Free State.....	2		1	13		5	4	3	1	1				
On vessel:														
S. S. Chaban, at Port Said, from Jaffa.....		1												
S. S. Tokio, at Shanghai, from Singapore.....	1	1												
Steamship at Porto Novo, from Lagos.....	1			1										

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CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

PLAGUE—Continued

(C indicates cases; D, deaths; P, present)

Place	July, 1929	Aug- ust, 1929	Sep- tem- ber, 1929	Octo- ber, 1929	No- vem- ber, 1929	De- cem- ber, 1929
British East Africa (see also table above):						
Kenya.....	C 57	19 866	28	146	62	
Uganda.....	C 1, 203	749				
Ecuador: Guayaquil.....	C 1	6	7	12		
Plague-infected rats.....	C 1	1	3	4		
Greece (see also table above).....	C 1	4	5	14		
India: Calcutta.....	C 1	2	5	3		
Madagascar (see also table above):	C 1	2	5	9		
Ambohitra Province.....	C 1	2	5	2		
Antsirabe Province.....	C 1	2	2	1		
Isaay Province.....	C 1	2	5			
Majunga Province.....	C 1	2	5			
Miarinarivo.....	C 1	2	11	12		
Madagascar (see also table above)—Contd.						
Moramanga Province.....	C 1	1	2	5		
Tamatave Province.....	C 1	2	4	7		
Tananarive Province.....	C 1	16 36	141	141		
Peru.....	C 1	16 34	135	132		
Senegal:						
Baol.....	C 22	32	42	45		5
Dakar.....	C 13	13	24	13		2
Louga.....	C 62	76	26	3		8
Rufisque.....	C 42	65	17	2		1
Thies.....	C 59	121	108	41		
Tivaouane.....	C 39	70	64	24		
Tiassale.....	C 22	1	1	1		
Touba.....	C 61	53	34	3		
Tivaouane.....	C 34	33	28	3		
Tiassale.....	C 161	188	119	41		8
Tiassale.....	C 96	119	55	21		4

SMALLPOX

[C indicates cases; D, deaths; P, present]

Place	Week ended—													
	November, 1929				December, 1929				Jan. 4, 1930					
	Oct. 28, 1929	2	9	16	23	30	7	14	21	28				
Algeria:														
Algiers.....	1	1	1		3	1	1	1						
Oran.....	3	1			1	1	2							
Arabia: Aden.....	4													
Australia: Fremantle Quarantine Station.....	37													
Brazil: Porto Alegre.....	1													
British East Africa (see also table below):														
Tanganyika.....	3	2	2											
British South Africa:														
Northern Rhodesia.....	10	5	9	1	3	1	7	15	4	3				
Canada:														
Southern Rhodesia.....	73													
Alberta.....	4													
Calgary.....	5													
Edmonton.....														
British Columbia—Vancouver.....	4	4	1	2	4	1	5	4	11	7	5	2		
Manitoba.....	2	1	3	3	4	1	5	4						
New Brunswick.....	14	8	5	15	2	1	6	1	6	1	6	2	3	7
Ontario.....	1				1	1								
London.....	57	2	10	7	3	5	3	6	35	5	10	13	4	28
Niagara Falls.....														
North Bay.....														
Ottawa.....	7	1	3	7	1	5	1		1					
Sarnia.....	1								1					
Toronto.....	7	3	3	1	1	1	1							
Windsor.....	2													
Prince Edward Island.....														
Quebec.....	2	3	1	7	8	7	6	1	6	2				
Riviere du Loup.....	2	1												
Saskatchewan.....	2													
Saskatoon.....	2	1	4	1	9	1	5	2	7	15	18	10		

! Incomplete reports.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

SMALLPOX—Continued

[C indicates cases; D, deaths; P, present]

Place	Week ended—																	
	June 30— July 27, 1929	July 28— Aug. 24, 1929	Aug. 25— Sept. 21, 1929	Sept. 22— Oct. 19, 1929	Oct. 20, 1929	November, 1929								December, 1929				Jan. 4, 1930
						2	9	16	23	30	7	14	21	28				
China:																		
Canton.....	12 2	2											1		3	1		
Chungking.....	C	D		P	P								P					
Foochow.....	C	C	P	P	P													
Hong Kong.....	C	C	1	2	3	4	5	6	10	7	9	36	19	36	19	36	27	
Manchuria—	D	D	5	4	2	2	7	4	8	6	8	33	12	16	29	29		
Harbin.....																		
Kwantung-Dairen.....	C	C	1	2	1	1												
Nanking.....	D	D	9	1	P					P								
Shanghai—																		
Foreigners only.....										3	1	2	2	1				
Including natives.....	C	D	3		2					1					2	2		
Swatow.....	D	D	3		3													
Tientsin.....	D	D	15	2														
Chosen (see table below).	C	C			2	3					1	3	1					
Colombia:																		
Barranquilla.....	C	C	2		4					14	14	14	14	16	12	14	9	
Buenaventura.....	D	D																
Dutch East Indies:																		
Belawan Deli.....	C	D	2	1	1						1	3			1	1		
Borneo—Samarinda.....	C	D	13	7						5								
Celebes—Makassar.....	D	D	21	4	12	156												
Java—	D	D	11	3	5	1												
Batavia and West Java.....	C	D	8	10	35	31				4	6	1	11	3	1	2	1	
East Java and Madura.....	D	D	2	5	7	6				1	5	1	3		1	2		
Sumatra—Medan.....	D	D	3	3							12	1	1	4	9			
	D	D	3	3							9	1	1	1				
	D	D	3	3							1	3						

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

SMALLPOX—Continued

[C indicates cases; D, deaths; P, present]

Place	Week ended—											
	November, 1929			December, 1929			Jan. 4, 1930					
	Sept. 22-30, 1929	Oct. 1-10, 1929	Oct. 11-20, 1929	Nov. 2-11, 1929	Nov. 12-21, 1929	Nov. 22-30, 1929	Dec. 1-10, 1929	Dec. 11-20, 1929	Dec. 21-30, 1929	Jan. 1-10, 1930	Jan. 11-20, 1930	Jan. 21-30, 1930
Iraq—Continued.												
Diyala Liwa.....	8	13	4									
Kirkuk Liwa.....	2	12	21									
Mosoul.....	12	51	66	24	17	6						
Ivory Coast (see table below)												
Jamaica (outside Kingston) (alastrim)												
Mexico (see also table below):												
Acapulco.....	7											
Aguascalientes.....	3	4	1									
Coahuila.....	11	7	6	8	1							
Jalisco (State): Guadalajara.....	6	5	8	4								
Juarez.....	13	21	7	8	2	1						
Mexico City and surrounding territory.....	3	6	1	8	2	1						
Morocco (see table below).												
Netherlands: Rotterdam.....	40	141	110	39	4	2	8	4				
Nigeria: Lagos.....	1	1	7	5								
Panama.....	14	5	95	154	8	3						
Persia (see table below).												
Philippine Islands: Sarangani and Thalut Islands.....												40
Poland.....												
Portugal: Lisbon.....	4	1	17									
Oporto.....	2											
Rumania.....												
Siam.....	71	32	23	33	2	4						
Somaland, British: Bonles.....	14	7	5	2	1	10	5	6	8	6	1	3
.....	4		2	3	5	3						

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

TYPHUS FEVER

[C indicates cases; D, deaths; P, present]

[illegible]

Place	June, 1929	July, 1929	August, 1929	September, 1929	October, 1929	November, 1929	December, 1929
Canada: Ontario.....	1						
Chosen: Seoul.....	2						
Czechoslovakia.....	2						
France.....							
Greece: Athens.....	3	6	1				
Latvia.....	3	1					
Lithuania.....							
Peru: Arequipa.....							
Turkey.....							
Yugoslavia.....							
Palestine.....							
Persia.....							
Peru: Arequipa (see table below).							
Poland.....							
Portugal:							
Lisbon.....							
Oporto.....							
Rumania.....							
Tunisia.....							
Turkey (see table below).							
Union of South Africa:							
Cape Province.....							
Natal.....							
Orange Free State.....							
Transvaal.....							
Yugoslavia (see table below).							

1 Press reports show that 10 deaths from typhus fever have occurred in Sao Paulo, Brazil, from Nov. 3 to 30, 1929.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued

YELLOW FEVER

[C indicates cases; D, deaths; F, present]

Place	June 2-29, 1929	June 30-July 27, 1929	July 28-Aug. 24, 1929	Aug. 25-Sept. 21, 1929	Sept. 22-Oct. 19, 1929	Week ended—								
						Oct. 20, 1929	November, 1929					December, 1929		
							2	9	16	23	30	7	14	21
Brazil:														
Bahia.....		1	1											
Niterheroy.....				1										
Para.....		1	1											
Rio de Janeiro.....	1	7	1	0	2	0	0	0	0	0	0	0	0	0
Colombia:														
Simacota.....		4												
Socorro ¹		12												
Gold Coast.....														
Liberia: Monrovia.....	4	4		1										
	3	1												

¹ From June 19 to July 8, 1929, 41 cases of yellow fever with 23 deaths were reported in Socorro, Colombia.